



SAFETY DATA SHEET	Revision Date: 13.02.2020
	Print Date: 14.05.2020
	SDS Number: 000000184091
Aropol™ M 105 TAXR RESIN ™ Trademark, INEOS or its subsidiaries, registered in various countries 755350	Version: 1.7

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Aropol™ M 105 TAXR
RESIN
™ Trademark, INEOS or its subsidiaries, registered in
various countries

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Reserved for industrial and professional use.

Restrictions on use

Consumer use

1.3 Details of the supplier of the safety data sheet

INEOS Composites Hispania S.L.
Carretera Reial 137-139
08960 Sant Just Desvern - Barcelona
Spain
+34 93 206 51 20 (in Spain)

sds.composites@ineos.com

1.4 Emergency telephone number

001-800-424-9300/001-703-527-3887, or contact
your local emergency telephone number at 111 -
ENG, SCO, CYM and 0808 808 8000 - NIE (Mo -
Fr, 08.00 - 18.00)

Regulatory Information Number

+34 93 206 51 20 (in Spain), or contact your local
CSR contact person

Product Information

+34 93 206 51 20 (in Spain)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Skin irritation, Category 2

H315: Causes skin irritation.

Eye irritation, Category 2

H319: Causes serious eye irritation.

INEOS

SAFETY DATA SHEET	Revision Date: 13.02.2020
	Print Date: 14.05.2020
	SDS Number: 000000184091
Aropol™ M 105 TAXR RESIN ™ Trademark, INEOS or its subsidiaries, registered in various countries 755350	Version: 1.7

Reproductive toxicity, Category 2

H361d: Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure, Category 1, Auditory organs

H372: Causes damage to organs through prolonged or repeated exposure.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (Auditory organs) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:	
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:	
P370 + P378	In case of fire: Use dry sand, dry chemical

INEOS

SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Styrene

Additional Labelling:

EUH208 Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

2.3 Other hazards

Additional advice

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Static Accumulator

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Styrene	100-42-5 202-851-5 01-2119457861-32-XXXX	Flam. Liq.3; H226 Acute Tox.4; H332 Skin Irrit.2; H315 Eye Irrit.2; H319 Repr.2; H361d STOT SE3; H335 STOT RE1; H372 Asp. Tox.1; H304 Aquatic Chronic3; H412	>= 40,00 - < 50,00
2-phenylpropene	98-83-9 202-705-0 01-2119472426-35-XXXX	Flam. Liq.3; H226 Eye Irrit.2; H319 Repr.2; H361 STOT SE3; H335 Aquatic Chronic2; H411	>= 0,30 - < 0,50
cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 01-2119524678-29-XXXX	Eye Irrit.2; H319 Skin Sens.1A; H317 Repr.1B; H360Fd Aquatic Acute1; H400	>= 0,00 - < 0,10


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

		Aquatic Chronic3; H412	
2-methylhydroquinone	95-71-6 202-443-7 05-2114477355-41-xxxx	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319 Aquatic Acute1; H400 Aquatic Chronic1; H410	$\geq 0,00 - < 0,10$
Substances with a workplace exposure limit :			
Amorphous colloidal silica	112945-52-5 231-545-4		$\geq 1,00 - < 2,50$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
 Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.
- If inhaled : Move to fresh air.
 IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.
 Keep patient warm and at rest.
 If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
 If on skin, rinse well with water.
 Wash contaminated clothing before re-use.
 If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
 Remove contact lenses.
 Protect unharmed eye.
- If swallowed : Obtain medical attention.


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
 stomach or intestinal upset (nausea, vomiting, diarrhea)
 irritation (nose, throat, airways)
 confusion

Risks :
 Causes skin irritation.
 Causes serious eye irritation.
 May cause respiratory irritation.
 Suspected of damaging the unborn child.
 Causes damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures
5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Alcohol-resistant foam
 Carbon dioxide (CO₂)
 Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite



SAFETY DATA SHEET	Revision Date: 13.02.2020
	Print Date: 14.05.2020
	SDS Number: 000000184091
Aropol™ M 105 TAXR RESIN ™ Trademark, INEOS or its subsidiaries, registered in various countries 755350	Version: 1.7

explosively.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Hydrocarbons
carbon dioxide and carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Do not use a solid water stream as it may scatter and spread fire.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.
Suppress (knock down) gases/vapours/mists with a water spray jet.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

If the product contaminates rivers and lakes or drains inform
 respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible
 absorbent material, (e.g. sand, earth, diatomaceous earth,
 vermiculite) and place in container for disposal according to
 local / national regulations (see section 13).

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage
7.1 Precautions for safe handling

Advice on safe handling : Open drum carefully as content may be under pressure.
 Avoid formation of aerosol.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Do not breathe vapours/dust.
 Do not smoke.
 Container hazardous when empty.
 Take precautionary measures against static discharges.
 Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 Smoking, eating and drinking should be prohibited in the
 application area.
 For personal protection see section 8.
 Dispose of rinse water in accordance with local and national
 regulations.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge
 (which might cause ignition of organic vapours). No sparking
 tools should be used. Keep away from open flames, hot
 surfaces and sources of ignition. Use only explosion-proof
 equipment.

Hygiene measures : Wash hands before breaks and at the end of workday. When
 using do not eat or drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep container tightly closed in a dry and well-ventilated


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

areas and containers

place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking. Electrical installations / working materials must comply with the technological safety standards.

Other data

: No decomposition if stored and applied as directed.

7.3 Specific end use(s)
SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Styrene	100-42-5	TWA	100 ppm 430 mg/m ³	GB EH40
		STEL	250 ppm 1.080 mg/m ³	GB EH40
Amorphous colloidal silica	112945-52-5	TWA (inhalable dust)	6 mg/m ³ inhalable dust (Silica)	GB EH40
		TWA (Respirable dust)	2,4 mg/m ³ Respirable dust (Silica)	GB EH40
2-phenylpropene	98-83-9	STEL	100 ppm 492 mg/m ³	2000/39/EC
		TWA	50 ppm 246 mg/m ³	2000/39/EC
		TWA	50 ppm 246 mg/m ³	GB EH40
		STEL	100 ppm 491 mg/m ³	GB EH40
cobalt bis(2-ethylhexanoate)	136-52-7	TWA	0,1 mg/m ³ (Cobalt)	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Styrene

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Short-term exposure, Systemic effects

INEOS

SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Value: 289 mg/m³
 End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: Short-term exposure, Local effects
 Value: 306 mg/m³
 End Use: Workers
 Exposure routes: Inhalation
 Potential health effects: Long-term exposure, Systemic effects
 Value: 85 mg/m³
 End Use: Workers
 Exposure routes: Skin contact
 Potential health effects: Long-term exposure, Systemic effects
 Value: 406 mg/kg
 End Use: Consumers
 Exposure routes: Inhalation
 Potential health effects: Short-term exposure, Systemic effects
 Value: 174,25 mg/m³
 End Use: Consumers
 Exposure routes: Inhalation
 Potential health effects: Short-term exposure, Local effects
 Value: 182,75 mg/m³
 End Use: Consumers
 Exposure routes: Skin contact
 Potential health effects: Long-term exposure, Systemic effects
 Value: 343 mg/kg
 End Use: Consumers
 Exposure routes: Ingestion
 Potential health effects: Long-term exposure, Systemic effects
 Value: 2,1 mg/kg
 End Use: Consumers
 Exposure routes: Inhalation
 Potential health effects: Long-term exposure, Systemic effects
 Value: 10,2 mg/m³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Styrene : Fresh water
 Value: 0,028 mg/l
 Fresh water
 Value: 0,04 mg/l
 Intermittent use/release
 Marine water
 Value: 0,014 mg/l
 Sewage treatment plant
 Value: 5 mg/l
 Fresh water sediment


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Value: 0,614 mg/kg

Marine sediment

Value: 0,307 mg/kg

Soil

Value: 0,2 mg/kg

8.2 Exposure controls

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

- Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
 Use eye protection according to EN 166.
- Hand protection
- Material : Laminate (Barrier© or Silvershield©)
- Break through time : 480 min
- Glove thickness : > 0,5 mm
- Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
- Skin and body protection : Wear chemical resistant clothing such as a permeation-resistant or chemical apron, gloves and boots whenever skin contact is possible.
 Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
 Protective clothing complying with EN 13688.
 Safety shoes complying with EN ISO 20345.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
 Respiratory protection complying with EN 136.
 Respiratory protection complying with EN 140.
 Respiratory protection complying with EN 14387.


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Filter type : Organic vapour type (A)

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

Appearance	: liquid
Odour	: pungent
pH	: Not applicable
Melting point/freezing point	: < -31 °C
Boiling point/boiling range	: ca. 145 °C
Flash point	: ca. 29 °C Method: ASTM D 56
Flammability (solid, gas)	: May form combustible dust concentrations in air (during processing).
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 8,5 hPa Calculated Vapor Pressure
Density	: 1,15 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: 500 mPa.s
Viscosity, kinematic	: > 20,5 mm ² /s (40 °C)


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

9.2 Other information

No data available

SECTION 10: Stability and reactivity
10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation may occur.
 Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Exposure to air.
 Exposure to sunlight.
 Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids
 aluminum
 aluminum chloride
 Bases
 Copper
 Copper alloys
 halogens
 iron chloride
 metal salts
 Strong oxidizing agents
 Peroxides

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide
 Hydrocarbons


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

SECTION 11: Toxicological information
11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity

Not classified based on available information.

Components:

Styrene

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 11,8 mg/l, 2770 ppm
 Exposure time: 4 h
 Test atmosphere: vapour

No observed adverse effect level (Humans): 100 ppm
 Exposure time: 7 h
 Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
 Method: OECD Test Guideline 402
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Components:

2-phenylpropene

Acute oral toxicity : LD50 (Rat): 4.900 mg/kg

Acute inhalation toxicity : LC50 (Rat): ca. 22,85 mg/l
 Exposure time: 6 h
 Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 14,6 g/kg

Components:

cobalt bis(2-ethylhexanoate)

Acute oral toxicity : LD50 (Rat, female): ca. 3.129 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 10 mg/l
 Exposure time: 1 h
 Test atmosphere: dust/mist


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Assessment: Not classified as acutely toxic by inhalation
 under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Components:

2-methylhydroquinone

Acute oral toxicity : LD50 (Mouse): > 400 mg/kg

LD50 (Rat): 754 mg/kg

Acute dermal toxicity : LD50 (Guinea pig): > 1.000 mg/kg
 Assessment: Not classified as acutely toxic by dermal
 absorption under GHS.

Components:

Amorphous colloidal silica

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
 Assessment: Not classified as acutely toxic by dermal
 absorption under GHS.

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

Styrene

Species: Rabbit

Result: Irritating to skin.

Species: human skin

Result: No skin irritation

2-phenylpropene

Species: Rabbit

Result: Slight, transient irritation

cobalt bis(2-ethylhexanoate)

Result: No skin irritation

2-methylhydroquinone

Result: Irritating to skin.


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Amorphous colloidal silica
 Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Styrene

Result: Irritating to eyes.

Remarks: Vapour during processing may be irritating to the respiratory tract and to the eyes.

2-phenylpropene

Species: Rabbit

Result: Irritating to eyes.

cobalt bis(2-ethylhexanoate)

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritating to eyes.

2-methylhydroquinone

Result: Irritating to eyes.

Amorphous colloidal silica

Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

Styrene

Exposure routes: Skin contact

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Exposure routes: inhalation (vapour)

Species: Humans

Assessment: Does not cause respiratory sensitisation.

cobalt bis(2-ethylhexanoate)

Test Type: Local lymph node assay

Species: Mouse

Assessment: The product is a skin sensitiser, sub-category 1A.

Method: OECD Test Guideline 429

Remarks: Information given is based on data obtained from similar substances.


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

2-methylhydroquinone
 Exposure routes: Dermal
 Species: Guinea pig
 Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

2-phenylpropene

Genotoxicity in vitro : Test Type: Ames test
 Test species: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative

cobalt bis(2-ethylhexanoate)

Genotoxicity in vitro : Test Type: Ames test
 Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging the unborn child.

Components:

Styrene

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

2-phenylpropene

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

cobalt bis(2-ethylhexanoate)

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.

Components:



SAFETY DATA SHEET	Revision Date: 13.02.2020
	Print Date: 14.05.2020
	SDS Number: 000000184091
Aropol™ M 105 TAXR RESIN ™ Trademark, INEOS or its subsidiaries, registered in various countries 755350	Version: 1.7

Styrene
Assessment: May cause respiratory irritation.

2-phenylpropene
Exposure routes: Inhalation
Target Organs: Respiratory Tract
Assessment: May cause respiratory irritation.

STOT - repeated exposure

Causes damage to organs (Auditory organs) through prolonged or repeated exposure.

Components:

Styrene
Exposure routes: inhalation (vapour)
Target Organs: Auditory system
Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Styrene
Species: Human
85 mg/m³
Application Route: inhalation (vapour)

Species: Human
615 mg/kg
Application Route: Skin contact

Aspiration toxicity

Not classified based on available information.

Components:

Styrene
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Styrene
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,02 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 4,7 mg/l


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN

™ Trademark, INEOS or its subsidiaries, registered
in various countries

755350

aquatic invertebrates	Exposure time: 48 h
Toxicity to algae	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 4,9 mg/l Exposure time: 72 h EC10 (Pseudokirchneriella subcapitata (green algae)): 0,28 mg/l Exposure time: 96 h
Toxicity to bacteria	: EC50 (activated sludge): ca. 500 mg/l Exposure time: 0,5 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 1,01 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
Toxicity to soil dwelling organisms	: NOEC: 34 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207
2-phenylpropene Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 2,97 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1,645 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Pseudokirchneriella subcapitata (green algae)): 11,441 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0,401 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

cobalt bis(2-ethylhexanoate)
 M-Factor (Short-term (acute)
 aquatic hazard) : 1

Ecotoxicology Assessment
 Short-term (acute) aquatic
 hazard : Acute aquatic toxicity Category 1

Long-term (chronic) aquatic
 hazard : Chronic aquatic toxicity Category 3

2-methylhydroquinone
 Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,09 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other
 aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,19 mg/l
 Exposure time: 48 h

M-Factor (Short-term (acute)
 aquatic hazard) : 10

Amorphous colloidal silica
 Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 10.000 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203

12.2 Persistence and degradability
Components:

Styrene
 Biodegradability : Result: Readily biodegradable.
 Biodegradation: > 60 %
 Exposure time: 10 d

2-phenylpropene
 Biodegradability : Test Type: aerobic
 Inoculum: activated sludge
 Result: Not readily biodegradable.
 Biodegradation: 21 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F

cobalt bis(2-ethylhexanoate)
 Biodegradability : Result: Readily biodegradable.


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Biodegradation: 60 %
 Exposure time: 10 d
 Method: OECD Test Guideline 301B

2-methylhydroquinone
 Biochemical Oxygen
 Demand (BOD) : 940 mg/g
 Incubation time: 5 d

Chemical Oxygen Demand
 (COD) : 1.970 mg/g

BOD/COD : BOD/COD: 0,48 %

Amorphous colloidal silica
 Biodegradability : Result: The methods for determining biodegradability are not
 applicable to inorganic substances.

12.3 Bioaccumulative potential
Components:

Styrene
 Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-
 octanol/water : log Pow: 2,96 (25 °C)

2-phenylpropene
 Partition coefficient: n-
 octanol/water : log Pow: 3,48

2-methylhydroquinone
 Partition coefficient: n-
 octanol/water : log Pow: 1,58

12.4 Mobility in soil
Components:

Styrene
 Distribution among
 environmental compartments : Koc: 352

12.5 Results of PBT and vPvB assessment
Components:


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Styrene
 Assessment

: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations
13.1 Waste treatment methods

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Container hazardous when empty.

Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.
 Dispose of as unused product.
 Empty containers should be taken to an approved waste handling site for recycling or disposal.
 Do not re-use empty containers.
 Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information
SECTION 14: Transport information
14.1 UN number

ADR: UN1866

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN1866

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN1866

INTERNATIONAL MARITIME DANGEROUS GOODS: UN1866

RID: UN1866

14.2 UN proper shipping name

INEOS

SAFETY DATA SHEET	Revision Date: 13.02.2020
	Print Date: 14.05.2020
	SDS Number: 000000184091
Aropol™ M 105 TAXR RESIN ™ Trademark, INEOS or its subsidiaries, registered in various countries 755350	Version: 1.7

ADR: RESIN SOLUTION

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: RESIN SOLUTION

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Resin solution

INTERNATIONAL MARITIME DANGEROUS GOODS: Resin solution

RID: RESIN SOLUTION

14.3 Transport hazard class(es)

ADR: 3

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 3

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 3

INTERNATIONAL MARITIME DANGEROUS GOODS: 3

RID: 3

14.4 Packing group

ADR: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: III

INTERNATIONAL MARITIME DANGEROUS GOODS: III

RID: III

14.5 Environmental hazards

ADR: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

SECTION 15: Regulatory information
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL All components of this product are on the Canadian DSL

AICS On the inventory, or in compliance with the inventory

NZIoC Not in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory

KECI On the inventory, or in compliance with the inventory

PICCS Not in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory

Inventories


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

15.2 Chemical safety assessment
SECTION 16: Other information
Further information

Revision Date: 13.02.2020

Classification procedure:

H226	Flammable liquid and vapour.	On basis of test data.
H315	Causes skin irritation.	Calculation method
H319	Causes serious eye irritation.	Calculation method
H361d	Suspected of damaging the unborn child.	Calculation method
H335	May cause respiratory irritation.	Calculation method
H372	Causes damage to organs through prolonged or repeated exposure.	Calculation method
H412	Harmful to aquatic life with long lasting effects.	Calculation method

Full text of H-Statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360Fd	May damage fertility. Suspected of damaging the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.



SAFETY DATA SHEET	Revision Date: 13.02.2020
	Print Date: 14.05.2020
	SDS Number: 000000184091
Aropol™ M 105 TAXR RESIN ™ Trademark, INEOS or its subsidiaries, registered in various countries 755350	Version: 1.7

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by INEOS's Environmental Health and Safety Department (+34 93 206 51 20 (in Spain)).

Sources of key data used to compile the Safety Data Sheet
 INEOS internal data including own and sponsored test reports
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
 BEI : Biological Exposure Index
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
 FG : Food grade
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
 H-statement : Hazard Statement
 IATA : International Air Transport Association.
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
 IMDG : International Maritime Code for Dangerous Goods
 ISO : International Organization for Standardization
 logPow : octanol-water partition coefficient
 LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level
 GAM : Water Hazard Class for the Netherlands
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine
 CLP : Classification, Labelling and Packaging
 CSA : Chemical Safety Assessment
 CSR : Chemical Safety Report
 DNEL : Derived No Effect Level.
 EINECS : European Inventory of Existing Commercial Chemical Substances.
 ELINCS : European List of Notified Chemical Substances
 GV: Exposure limits (DK)
 PEC : Predicted Effect Concentration
 PEL : Permissible Exposure Limits
 PNEC : Predicted No Effect Concentration
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail
 WGK : German Water Hazard Class

GB / EN



SAFETY DATA SHEET	Revision Date: 13.02.2020
	Print Date: 14.05.2020
	SDS Number: 000000184091
Aropol™ M 105 TAXR RESIN ™ Trademark, INEOS or its subsidiaries, registered in various countries 755350	Version: 1.7



SAFETY DATA SHEET (1907/2006)

Revision Date: 2019-12-16

Version: 1

PRODUCTS THAT CONTAIN STYENE

Scenario 7: FRP manufacturing in an industrial setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.) (ES7)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

An overall exposure scenario may be described by a number of contributing scenarios which may be subdivided into environmental exposure, worker exposure and consumer exposure.

The following scenarios contribute to the scenario *FRP manufacturing in an industrial setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.)*.

Table 7. Description of ES 7

Free short title	FRP manufacturing in an industrial setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.) (ES7)
Systematic title based on use descriptor	ERC 6D; PROC 10, 7, 13, 5, 3, 14, 8A, 15
Name of contributing environmental scenario and corresponding ERC	ERC 6d Production of resins/rubbers
Name(s) of contributing worker scenarios and corresponding PROCs	PROC 10 - Roller application or brushing PROC 7 - Industrial spraying PROC 13 - Treatment of articles by dipping and pouring PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 3 - Use in closed batch process (synthesis or formulation) PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities PROC 15 - Use of laboratory reagents in small scale laboratories
7.1 Contributing Scenario (1) controlling environmental exposure for ERC 6D	
Operational conditions	
Annual European tonnage	8.06E5 to/year
Daily amount used at site	7.61E5 kg/day
Release times per year	300 days/year (<i>justification: Continuous release</i>)


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	0.102 %
Release fraction to wastewater from process	0.00063 %
Release fraction to soil from process	0.025 %
Fraction tonnage to region	10 %
Fraction used at main source	60 %
STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day
Other modified EUSES values	
Fraction released to agricultural soil (Femis.agric)	0 % (<i>justification: No direct release to soil (EU Risk Assessment Report on Styrene, European Communities, 2002)</i>)
Fraction released to industrial soil (Femis.ind)	0 % (<i>justification: No direct release to soil (EU Risk Assessment Report on Styrene, European Communities, 2002)</i>)
Fraction released to waste water (Femis.water)	0.00063 % (<i>justification: EU Risk Assessment Report, 2002</i>)
Fraction released to air (Femis.air)	0.102 % (<i>justification: EU Risk Assessment Report, 2002</i>)
Fraction used at main source	60 % (<i>justification: Value adopted to account for Worstcase European manufacturing site</i>)
Fraction of emission directed to water by local STP (Fstp.water)	0.081 - (<i>justification: Efficiency STP 97.9%</i>)
7.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 10	
Name of contributing scenario	10 - Roller application or brushing
Scenario subtitle	Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98] All open mould applications where resins is applied by brushing, rolling and other low energy spreading operations; Examples are handlamination, gelcoatbrushing, filament winding
Qualitative Risk Assessment	
General	Use long handled brushes and rollers where possible Ensure the ventilation system is regularly maintained and tested Dispose of empty containers and wastes safely Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin
Product characteristics	


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	enhanced (70%)
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
7.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 7	
Name of contributing scenario	7 - Industrial spraying
Scenario subtitle	Spraying [CS10]; Spraying (automatic/robotic) [CS97] All open mould applications where resins is applied by automated spraying or by robot in a spray cabin without direct worker involvement. Examples are spray lamination, gelcoat spraying and "chop-hoop" filament winding
Qualitative Risk Assessment	
General	Ensure the ventilation system is regularly maintained and tested Dispose of empty containers and wastes safely Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Wear suitable coveralls to prevent exposure to the skin Use suitable eye protection. Wear suitable face shield Wear chemically resistant gloves in combination with intensive management supervision control.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
Carry out in a vented booth or extracted enclosure	inhalation: 95 % (<i>justification: Carry out in a vented booth or extracted enclosure</i>)
7.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 7	
Name of contributing scenario	7 - Industrial spraying
Scenario subtitle	Spraying [CS10]; Spraying (manually) [CS97] All open mould applications where resins is applied by manual spraying in an open work environment. Examples are spray lamination, gelcoat spraying and "chop-hoop" filament winding
Qualitative Risk Assessment	
General	Carefully pour from containers Use long handled tools where possible Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Wear suitable face shield Wear suitable coveralls to prevent exposure to the skin Wear chemically resistant gloves in combination with intensive management supervision control.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²

INEOS

SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
7.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 10	
Name of contributing scenario	10 - Roller application or brushing
Scenario subtitle	Dipping, immersion and pouring [CS4]; Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98] Application of repair putties; Application of bonding pastes / adhesives.
Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	enhanced (70%)
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Respiratory protection	no
7.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 13	
Name of contributing scenario	13 - Treatment of articles by dipping and pouring
Scenario subtitle	Dipping, immersion and pouring [CS4]; Continuous process [CS54]. Continuous processes with open impregnation steps, such as pultrusion with open impregnation baths and (semi-) continuous production of flat laminates
Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	yes (inhalation 90 %)
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	No
Respiratory protection	no
7.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 5	
Name of contributing scenario	5 - Mixing or blending in batch processes (multistage and/or significant contact)
Scenario subtitle	Casting operations [CS32]; Mixing operations (open systems) [CS30]. Casting and mixing operations in (semi-) open containers. Examples are centrifugal casting, casting of polymer concrete and artificial marble and the manufacturing of SMC / BMC/ TMC, etc
Qualitative Risk Assessment	


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	yes (inhalation 90 %)
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
7.8 Contributing Scenario (8) controlling industrial worker exposure for PROC 5	
Name of contributing scenario	5 - Mixing or blending in batch processes (multistage and/or significant contact)
Scenario subtitle	General exposures (closed systems) [CS15]. Mixing liquid and solid components / into final formulated resin in blending vessel; Examples are gelcoat blending and compounding, formulation of repair putties, bonding pastes, chemical anchoring, etc
Qualitative Risk Assessment	
General	Put lids on containers immediately after use. Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	enhanced (70%)
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
7.9 Contributing Scenario (9) controlling industrial worker exposure for PROC 3	
Name of contributing scenario	3 - Use in closed batch process (synthesis or formulation)
Scenario subtitle	Material transfers [CS3]; Automated process with (semi) closed systems [CS93]; Use in contained batch processes [CS37]. Resin injection and transfer processes, such as vacuum infusion, RTM, impregnation of sewer relining sleeves
Qualitative Risk Assessment	
General	Put lids on containers immediately after use. Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	240 cm ²
Other given operational conditions affecting workers exposure	

INEOS

SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Location	indoors
Ventilation	good (30%)
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
7.10 Contributing Scenario (10) controlling industrial worker exposure for PROC 14	
Name of contributing scenario	14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation
Scenario subtitle	Material transfers [CS3]; Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]; Treatment by heating [CS129]; Batch processes at elevated temperatures [CS136]. Processes where curing of UP / VE resins takes place at high temperature. Examples are pultrusion with injection dies and processing of SMC / BMC / TMC, etc
Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
Product characteristics	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	enhanced (70%)
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

7.11 Contributing Scenario (11) controlling industrial worker exposure for PROC 3

Name of contributing scenario	3 - Use in closed batch process (synthesis or formulation)
Scenario subtitle	Material transfers [CS3]. Product delivery/storage - delivery of bulk and packaged products - outdoor / indoor
Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	240 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

7.12 Contributing Scenario (12) controlling industrial worker exposure for PROC 5

Name of contributing scenario	5 - Mixing or blending in batch processes (multistage and/or significant contact)
Scenario subtitle	Drum/batch transfers [CS8]; Pouring from small containers [CS9]; Transfer from/pouring from containers [CS22]; Mixing operations (open systems) [CS30]. Loading of mixing equipment; Preparation of material for application; (liquid products) - batch, indoor
Qualitative Risk Assessment	
General	Put lids on containers immediately after use. Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection.


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

	Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	yes (inhalation 90 %)
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
7.13 Contributing Scenario (13) controlling industrial worker exposure for PROC 8A	
Name of contributing scenario	8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Scenario subtitle	Equipment maintenance [CS5]; Maintenance of small items [CS18]. Equipment cleaning and maintenance, open indoor
Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	

INEOS

SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
Local exhaust ventilation	inhalation: 70 % (<i>justification: Use local exhaust ventilation with adequate effectiveness</i>)
7.14 Contributing Scenario (14) controlling industrial worker exposure for PROC 15	
Name of contributing scenario	15 - Use of laboratory reagents in small scale laboratories
Scenario subtitle	Laboratory activities [CS36]. Quality control work of samples from blending vessel; R&D work including handling of samples from 1 kg to 1 drum
Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	240 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

7.15 Contributing Scenario (15) controlling industrial worker exposure for PROC 8A

Name of contributing scenario	8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Scenario subtitle	Disposal of wastes [CS28]. Handling of non cured waste; Waste management / handling and storage of waste for removal for off-site treatment or for on-site treatment like incineration and/or biological waste water treatment
Qualitative Risk Assessment	
General	Put lids on containers immediately after use. Contain and dispose of waste according to local regulations Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Domain	industrial
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	yes (inhalation 90 %)
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

Scenario 8: FRP manufacturing in a professional setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.) (ES8)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

An overall exposure scenario may be described by a number of contributing scenarios which may be subdivided into environmental exposure, worker exposure and consumer exposure.

The following scenarios contribute to the scenario *FRP manufacturing in a professional setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.)*.


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Table 8. Description of ES 8

Free short title	FRP manufacturing in a professional setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.) (ES8)
Systematic title based on use descriptor	ERC 8E; PROC 10, 11, 5, 4, 3, 8A
Name of contributing environmental scenario and corresponding ERC	ERC 8e Wide dispersive outdoor use of reactive substances in open systems
Name(s) of contributing worker scenarios and corresponding PROCs	PROC 10 - Roller application or brushing PROC 11 - Non industrial spraying PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC 3 - Use in closed batch process (synthesis or formulation) PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities

8.1 Contributing Scenario (1) controlling environmental exposure for ERC 8E
Operational conditions

Annual European tonnage	8.42E6 to/year
Daily amount used at site	4.83E5 kg/day
Release times per year	300 days/year (<i>justification: Continuous production</i>)
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	0.102 %
Release fraction to wastewater from process	0.000012 %
Release fraction to soil from process	0 %
Fraction tonnage to region	10 %
Fraction used at main source	60 %
STP	yes
River flow rate	18000 m ³ /day
Municipal sewage treatment plant discharge	2000000 L/day

Other modified EUSES values

Fraction released to agricultural soil (Femis.agric)	0 % (<i>justification: No direct release to soil (EU Risk Assessment Report on Styrene, European Communities, 2002)</i>)
Fraction released to industrial soil (Femis.ind)	0 % (<i>justification: No direct release to soil (EU Risk Assessment Report on Styrene, European Communities, 2002)</i>)
Fraction released to waste water (Femis.water)	0.000012 % (<i>justification: EU Risk Assessment Report, 2002</i>)

INEOS

SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Fraction released to air (Femis.air)	0.102 % (justification: EU Risk Assessment Report, 2002)
Fraction used at main source	60 % (justification: Value adopted to account for worst-case European manufacturing site)
Fraction of emission directed to water by local STP (Fstp.water)	0.081 - (justification: Efficiency STP 97.9%)
8.2 Contributing Scenario (2) controlling professional worker exposure for PROC 10	
Name of contributing scenario	10 - Roller application or brushing
Scenario subtitle	Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98] All open mould applications where resins is applied by brushing, rolling and other low energy spreading operations; Examples are handlamination, gelcoatbrushing, semi-continuous production of flat panels and laminates
Qualitative Risk Assessment	
General	Use long handled brushes and rollers where possible Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
8.3 Contributing Scenario (3) controlling professional worker exposure for PROC 11	
Name of contributing scenario	11 - Non industrial spraying
Scenario subtitle	Spraying [CS10]; Spraying (manually) [CS97] All open mould



SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

	applications where resins is applied by manual spraying in an open work environment. Examples are spray lamination, gelcoat spraying and "chop-hoop" filament winding
Qualitative Risk Assessment	
General	<p>Keep people not involved in the activity, away from the operation</p> <p>Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures</p> <p>Use suitable eye protection.</p> <p>Wear suitable face shield</p> <p>Wear suitable coveralls to prevent exposure to the skin. Wear chemically resistant gloves in combination with intensive manage management supervision control.</p>
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	1 - 4 hours
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	1,500 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	95 %

8.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10

Name of contributing scenario	10 - Roller application or brushing
Scenario subtitle	<p>Dipping, immersion and pouring [CS4]; Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98]</p> <p>Application of repair putties; Application of bonding pastes / adhesives.</p>
Qualitative Risk Assessment	


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
8.5 Contributing Scenario (5) controlling professional worker exposure for PROC 10	
Name of contributing scenario	10 - Roller application or brushing
Scenario subtitle	Dipping, immersion and pouring [CS4]; Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98] Application of floorings, mastics, coatings, castings


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
8.6 Contributing Scenario (6) controlling professional worker exposure for PROC 5	
Name of contributing scenario	5 - Mixing or blending in batch processes (multistage and/or significant contact)

INEOS

SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Scenario subtitle	Material transfers [CS3]; Pouring from small containers [CS9]. Preparation of material for application (liquids) - transfer of material from one container to another; Formulating / blending resins, gelcoats, bonding pastes, putties etc. in blending vessels
Qualitative Risk Assessment	
General	Use drum pumps. Put lids on containers immediately after use. Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

8.7 Contributing Scenario (7) controlling professional worker exposure for PROC 4

Name of contributing scenario	4 - Use in batch and other process (synthesis) where opportunity for exposure arises
Scenario subtitle	Use in contained batch processes [CS37]. Sewer relining operation
Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	480 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
8.8 Contributing Scenario (8) controlling professional worker exposure for PROC 3	


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Name of contributing scenario	3 - Use in closed batch process (synthesis or formulation)
Scenario subtitle	Use in contained batch processes [CS37]. Application of chemical anchoring
Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
Product characteristics	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	240 cm ²
Other given operational conditions affecting workers exposure	
Location	outdoors (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
8.9 Contributing Scenario (9) controlling professional worker exposure for PROC 8A	


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Name of contributing scenario	8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Scenario subtitle	Equipment maintenance [CS5]; Maintenance of small items [CS18]. Equipment cleaning and maintenance, open indoor
Qualitative Risk Assessment	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	15 mins to 1 hour
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
8.10 Contributing Scenario (10) controlling professional worker exposure for PROC 8A	


SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
 ™ Trademark, INEOS or its subsidiaries, registered
 in various countries
 755350

Name of contributing scenario	8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Scenario subtitle	Disposal of wastes [CS28]. Handling of non cured waste; Waste management / handling and storage of waste for removal for off-site treatment or for on-site treatment like incineration and/or biological waste water treatment
Qualitative Risk Assessment	
General	Dispose of empty containers and wastes safely Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
Product characteristics	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
Frequency and duration of use	
Duration of activity	15 mins to 1 hour
Frequency of use	5 days / week
Human factors not influenced by risk management	
Exposed skin surface	960 cm ²
Other given operational conditions affecting workers exposure	
Location	indoors
Ventilation	good (30%)
Domain	professional
Technical conditions and measures to control dispersion and exposure	
Local exhaust ventilation	no
Conditions and measures related to personal protection, hygiene and health evaluation	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

INEOS

SAFETY DATA SHEET

Revision Date: 13.02.2020

Print Date: 14.05.2020

SDS Number: 000000184091

Version: 1.7

Aropol™ M 105 TAXR RESIN
™ Trademark, INEOS or its subsidiaries, registered
in various countries
755350