

**SAFETY DATA SHEET**

Revision Date: 03/18/2020

Print Date: 06.01.2021

SDS Number: 000000222268

Version: 6.1

AME™ 5500 C RESIN
™ Trademark, INEOS or its subsidiaries, registered
in various countries
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1. PRODUCT AND COMPANY IDENTIFICATION**Product identifier**

Trade name : AME™ 5500 C
RESIN
™ Trademark, INEOS or its subsidiaries, registered in
various countries

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

Recommended use : Industrial chemical

Details of the supplier of the safety data sheet Shanghai INEOS Composites Co., Ltd. Unit 1801B of Xuhuiyuan Building No 1089, South Zhongshan NO. 2 Road Shanghai 200030 China 上海英力士复合材料有限公司 上海市中山南二路1089号徐汇苑大厦18楼1801B 上海 200030 中国 sds.composites@ineos.com	Emergency telephone number 1-800-424-9300 (+1-703-527-3887 for direct dial), or call the local emergency number 0532 8388 9090 (China) Regulatory Information Number 021 2402 4688 (in China), or contact your local customer service representative Product Information +021 2402 4688
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2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3
Acute toxicity (Inhalation) : Category 5
Skin corrosion/irritation : Category 2
Serious eye damage/eye
irritation : Category 2A
Specific target organ toxicity - : Category 3 (respiratory tract irritation)
single exposure
Specific target organ toxicity - : Category 1 (Auditory system)

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repeated exposure
 (Inhalation)

Aspiration hazard : Category 1

Short-term (acute) aquatic
 hazard : Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H333 May be harmful if inhaled.
 H335 May cause respiratory irritation.
 H372 Causes damage to organs (Auditory system) through
 prolonged or repeated exposure if inhaled.
 H401 Toxic to aquatic life.

Precautionary statements : **Prevention:**
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
 No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ ventilating/ lighting
 equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ eye protection/ face protection.
Response:
 P301 + P310 IF SWALLOWED: Immediately call a POISON
 CENTER/ doctor.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off
 immediately all contaminated clothing. Rinse skin with water/
 shower.

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P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No. Registration number	Classification	Concentration (%)
STYRENE	100-42-5	Flam. Liq. 3; H226 Acute Tox. 5; H303 Acute Tox. 4; H332 Skin Corr. 2; H315 Eye Dam. 2A; H319 STOT SE 3; H335 STOT RE 1; H372 Asp. Tox. 1; H304 Aquatic Acute 2; H401	>= 30.00 - < 50.00
METHACRYLIC ACID	79-41-4	Flam. Liq. 4; H227 Acute Tox. 4; H302 Acute Tox. 4; H332	>= 0.25 - < 1.00

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		Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Acute 3; H402	
DIMETHYLANILINE	121-69-7	Flam. Liq. 4; H227 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Eye Dam. 2A; H319 Carc. 2; H351 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	>= 0.10 - < 0.25
COPPER COMPOUND	142-71-2	Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.025 - < 0.10
ORGANIC COMPOUND	95-71-6	Acute Tox. 4; H302 Skin Corr. 2; H315 Eye Dam. 2A; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.0025 - < 0.025

4. FIRST AID MEASURES

- General advice : Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
If symptoms persist, call a physician.
In case of shortness of breath, give oxygen.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.

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- In case of eye contact : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses.

- If swallowed : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

- Most important symptoms and effects, both acute and delayed : 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)
 Nose bleeding
 Cough
 Headache
 loss of appetite
 pain in the abdomen and lower back
 confusion
 cyanosis (causes blue coloring of the skin and nails from lack of oxygen)
 lung edema (fluid buildup in the lung tissue)
 acute kidney failure (sudden slowing or stopping of urine production)
 Convulsions

Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnea, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis.

May be fatal if swallowed and enters airways.
 Causes skin irritation.
 Causes serious eye irritation.

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May be harmful if inhaled.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated
exposure if inhaled.

Notes to physician

:

This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam
Water spray
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
Halons
- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.
Do not allow run-off from fire fighting to enter drains or water courses.
- Specific extinguishing methods : Keep containers and surroundings cool with water spray.
Prevent fire extinguishing water from contaminating surface water or the ground water system.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
- Product is compatible with standard fire-fighting agents.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind. Ensure adequate ventilation. Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and 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). Keep in suitable, closed containers for disposal.
- Prevention of secondary hazards : Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

7. HANDLING AND STORAGE

Handling

- Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Keep product and empty container away from heat and sources of ignition. No sparking tools should be used. Avoid formation of aerosol.
- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding the given occupational exposure limits (see section 8). Smoking, eating and drinking should be prohibited in the application area.

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Ensure all equipment is electrically grounded and bonded
before beginning transfer operations.

Avoidance of contact : Acids
aluminum
aluminum chloride
Bases
Copper
Copper alloys
halogens
iron chloride
metal salts
strong bases
Strong oxidizing agents
Peroxides

Storage

Conditions for safe storage : Store in original container.
Keep containers tightly closed in a dry, cool and well-
ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
STYRENE	100-42-5	PC-TWA	50 mg/m ³	GBZ 2.1-2007
		PC-STEL	100 mg/m ³	GBZ 2.1-2007
METHACRYLIC ACID	79-41-4	PC-TWA	70 mg/m ³	GBZ 2.1-2007
DIMETHYLANILINE	121-69-7	PC-TWA	5 mg/m ³	GBZ 2.1-2007
		PC-STEL	10 mg/m ³	GBZ 2.1-2007

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
STYRENE	100-42-5	mandelic acid plus phenylglyox ylic acid	Urine	End of shift	400 mg/g Creatinine	ZCN_B EI
		mandelic acid plus phenylglyox ylic acid	Urine	End of shift	295 Millimoles per mole Creatinine	ZCN_B EI

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		mandelic acid plus phenylglyoxylic acid	Urine	Before next shift	120 Millimoles per mole Creatinine	ZCN_B EI
		mandelic acid plus phenylglyoxylic acid	Urine	Before next shift	160 mg/g Creatinine	ZCN_B EI

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks

: Wear resistant gloves such as:
Polyvinyl alcohol or nitrile- butyl-rubber gloves
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Safety glasses with side-shields

Skin and body protection

: Wear as appropriate:
Safety shoes
Flame-resistant clothing
Impervious clothing
Chemical resistant apron
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures

: Keep away from food, drink and animal feedingstuffs.
When using do not eat, drink or smoke.
Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Odour : pungent

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Odour Threshold	: No data available
pH	: Not applicable
Melting point/freezing point	: <-30 °C
Boiling point/boiling range	: > 145 °C
Flash point	: 29.4 °C Method: Seta closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: 8 %(V)
Lower explosion limit	: 1.1 %(V)
Vapour pressure	: 6 hPa (20 °C)
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 1.15 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 5,000 mPa.s
Viscosity, kinematic	: No data available
Oxidizing properties	: No data available

10. STABILITY AND REACTIVITY

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Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Stable under recommended storage conditions. Hazardous polymerisation may occur. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks. Exposure to air. Exposure to sunlight.
Incompatible materials	: Acids aluminum aluminum chloride Bases Copper Copper alloys halogens iron chloride metal salts strong bases Strong oxidizing agents Peroxides
Hazardous decomposition products	: Hydrocarbons Acetone Carbon dioxide (CO ₂) Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Exposure routes : Skin contact, Eye Contact, Ingestion, Inhalation

Acute toxicity

May be harmful if inhaled.

Product:

Acute oral toxicity :

Remarks: Ingestion of medications contaminated with diethylene glycol has caused kidney failure and death in humans. Products containing diethylene glycol should be considered toxic by ingestion.

Acute dermal toxicity : Remarks: Skin absorption of this material (or a component) may be increased through injured skin.

Components:


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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.

METHACRYLIC ACID:

Acute oral toxicity : LD50 (Mouse): 1,250 mg/kg

LD50 (Rat, male): 1,320 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 7.1 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.

Acute dermal toxicity : LD50 (Rabbit): 500 - 1,000 mg/kg

DIMETHYLANILINE:

Acute oral toxicity : LD50 (Rat): 951 mg/kg
Assessment: The component/mixture is classified as acute oral toxicity, category 3.
Remarks: Expert judgement
Expected based on components.

Acute inhalation toxicity : LCLo (Rat): 250 mg/m³
Exposure time: 4 h

LC50 (Rat): > 5.1 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 1,770 mg/kg

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Assessment: The component/mixture is classified as acute dermal toxicity, category 3.
Remarks: Expert judgement

COPPER COMPOUND:

Acute oral toxicity

: LD50 (Rat): 300 - 2,000 mg/kg
Method: OECD Test Guideline 420
Assessment: The component/mixture is classified as acute oral toxicity, category 4.

Acute dermal toxicity

: LC50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

ORGANIC COMPOUND:

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.

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: May cause skin irritation in susceptible persons., Causes severe skin burns and eye damage.

Result: Repeated exposure may cause skin dryness or cracking.

Components:

STYRENE:

Species: Rabbit

Result: Irritating to skin.

Species: human skin

Result: No skin irritation

METHACRYLIC ACID:

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes or less of exposure

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DIMETHYLANILINE:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Slight, transient irritation

COPPER COMPOUND:

Method: OECD Test Guideline 431

Result: Corrosive to skin

ORGANIC COMPOUND:

Result: Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: May cause irreversible eye damage.

Components:

STYRENE:

Result: Irritating to eyes.

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

METHACRYLIC ACID:

Result: Corrosive

DIMETHYLANILINE:

Result: Irritating to eyes.

COPPER COMPOUND:

Result: Corrosive

Method: OECD Test Guideline 405

ORGANIC COMPOUND:

Result: Irritating to eyes.

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.

Result: negative

Exposure routes: inhalation (vapour)

Species: Humans

Assessment: Does not cause respiratory sensitisation.

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Result: negative

METHACRYLIC ACID:

Test Type: Buehler Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

COPPER COMPOUND:

Test Type: Maximisation Test

Species: Guinea pig

Result: Does not cause skin sensitisation.

ORGANIC COMPOUND:

Exposure routes: Dermal

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components:

METHACRYLIC ACID:

Genotoxicity in vitro

: Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

: Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 487

Result: negative

Genotoxicity in vivo

: Test Type: Mammalian bone marrow sister chromatid
exchange

Test species: Rat (male)

Cell type: Bone marrow

Method: OECD Test Guideline 475

Result: negative

Test Type: chromosome aberration assay

Test species: Mouse (male)

Method: OECD Test Guideline 478

Result: negative

Test Type: chromosome aberration assay

Test species: Mouse (male)

Cell type: peripheral blood cells

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Method: OECD Test Guideline 474

Result: negative

DIMETHYLANILINE:

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

: Test Type: Chromosome aberration test in vitro

Test species: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Result: positive

COPPER COMPOUND:

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

Genotoxicity in vivo

: Test Type: Micronucleus test

Test species: Mouse

Application Route: Oral

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

DIMETHYLANILINE:

Carcinogenicity -

Assessment

: Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Not classified based on available information.

Components:

METHACRYLIC ACID:

Effects on fertility

: Species: Rat

Application Route: Oral

Fertility: No observed adverse effect level (Mating/Fertility):
400 mg/kg body weightSymptoms: No effects on fertility No effects on reproduction
parameters

Method: OECD Test Guideline 416

Effects on foetal
development

: Species: Rabbit

Application Route: Oral


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Developmental Toxicity: No observed adverse effect level F1:
450 mg/kg body weight
Symptoms: No specific developmental abnormalities
Method: OECD Test Guideline 414

STOT - single exposure

May cause respiratory irritation.

Components:

STYRENE:

Assessment: May cause respiratory irritation.

METHACRYLIC ACID:

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

COPPER COMPOUND:

Assessment: May cause respiratory irritation.

STOT - repeated exposure

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

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

METHACRYLIC ACID:

Species: Rat, male and female

NOAEC: 352 mg/m³

Application Route: inhalation (dust/mist/fume)

Exposure time: 90 Days

Group: yes

Symptoms: Local irritation, Reduced body weight

Aspiration toxicity

May be fatal if swallowed and enters airways.

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Components:

STYRENE:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks: Solvents may degrease the skin.

Components:

DIMETHYLANILINE:

Remarks: Central nervous system

12. ECOLOGICAL INFORMATION

Ecotoxicity

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
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 4.9
mg/l
Exposure time: 72 h

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 1.01 mg/l
aquatic invertebrates Exposure time: 21 d
(Chronic toxicity)

Toxicity to bacteria : EC50 (activated sludge): ca. 500 mg/l
Exposure time: 0.5 h

Toxicity to soil dwelling : NOEC (Eisenia fetida (earthworms)): 34 mg/kg
organisms Exposure time: 14 d
Method: OECD Test Guideline 207

METHACRYLIC ACID:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 130 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: flow-through test

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Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 20 mg/l
 End point: Biomass
 Exposure time: 72 h
 Test Type: flow-through test
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 10 mg/l
 Exposure time: 35 d
 Test Type: flow-through test
 Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 53 mg/l
 Exposure time: 21 d
 Test Type: flow-through test
 Method: OECD Test Guideline 211

DIMETHYLANILINE:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 78.2 mg/l
 Exposure time: 96 h
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.7 - 3.1 mg/l
 Exposure time: 48 h
 Test Type: static test

Toxicity to algae : NOEC (Chlorella pyrenoidosa (aglae)): 14 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test

EC50 (Chlorella pyrenoidosa (aglae)): 22 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test

COPPER COMPOUND:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l
 Exposure time: 96 h
 Test Type: flow-through test
 Remarks: Information given is based on data obtained from similar substances.

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

M-Factor (Long-term (chronic) aquatic hazard) : 1


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ORGANIC COMPOUND:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0.09 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.19 mg/l
aquatic invertebrates Exposure time: 48 h

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

No data available

Persistence and degradability
Components:
STYRENE:

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

METHACRYLIC ACID:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 87 %
Exposure time: 28 d

ORGANIC COMPOUND:

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

Chemical Oxygen Demand : 1,970 mg/g
(COD)

BOD/COD : BOD/COD: 0.48 %

No data available

Bioaccumulative potential
Components:
STYRENE:

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n- : log Pow: 2.96 (25 °C)
octanol/water

METHACRYLIC ACID:

Bioaccumulation : Bioconcentration factor (BCF): 1.0
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: 0.93
octanol/water


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DIMETHYLANILINE:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 3 - 13
Exposure time: 48 h
Method: Static

Partition coefficient: n-
octanol/water : log Pow: 2.31

ORGANIC COMPOUND:

Partition coefficient: n-
octanol/water : log Pow: 1.58

No data available

Mobility in soil
Components:
STYRENE:

Distribution among : Koc: 352
environmental compartments

No data available

Other adverse effects
Product:

Additional ecological : An environmental hazard cannot be excluded in the event of
information : unprofessional handling or disposal., Toxic to aquatic life.,
Harmful to aquatic life with long lasting effects.

Components:
STYRENE:

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

13. DISPOSAL CONSIDERATIONS
Disposal methods

General advice : The product should not be allowed to enter drains, water
courses or the soil.
Do not contaminate ponds, waterways or ditches with
chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste

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handling site for recycling or disposal.
 Do not re-use empty containers.
 Do not burn, or use a cutting torch on, the empty drum.

14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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CN_DG

UN	1866	RESIN SOLUTION	3		III
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1866	Resin solution	3		III
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1866	Resin solution	3		III
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1866	RESIN SOLUTION	3		III
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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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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.

15. REGULATORY INFORMATION

National regulatory information

Law on the Prevention and Control of Occupational Diseases

Regulations on the Control over Safety of Dangerous Chemicals (Decree No. 591 of the State Council of the People's Republic of China)


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List of dangerous goods (GB12268-2012)
Classification and code of dangerous goods (GB6944-2012)
Safety Data Sheet for chemical products – Content and order of sections (GB16483-2008)
General rule for classification and hazard communication of chemicals (GB13690-2009)
The components of this product are reported in the following inventories:

DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or 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	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: Not in compliance with the inventory
TSCA	: On TSCA Inventory

Inventories

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

16. OTHER INFORMATION
Further information

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Full text of H-Statements

H226	Flammable liquid and vapour.
H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.

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H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic 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.

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.

Full text of other abbreviations
AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

CN OEL : China. Occupational Exposure Limits

HK OEL : Hong Kong. Code of Practice on Control of Air Impurities (Chemical Substances) in the Workplace

IN OEL : India. Permissible levels of certain chemical substances in work environment.

ID OEL : Indonesia. Occupational Exposure Limits

JPJSH OEL : Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits

JPISHL OEL : Japan. Administrative Control Levels

KOR OEL : Korea. Occupational Exposure Limits

MY OEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health)

NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

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PH OEL : Philippines. Threshold Limit Values For Airborne Contaminants

SG OEL : Singapore. Workplace Safety and Health Act - First Schedule Permissible Exposure
Limits of Toxic Substances

TW OEL : Taiwan. Standards on the Concentration Levels of Hazardous Substances in the Air
at Workplace

TH OEL : Thailand. Occupational Exposure Limits

VN OEL : Vietnam. Occupational Exposure Limits

CN / EN