SAFETY DATA SHEET according to regulation 1907/2006

Product name: 6150 B15 Multi-Alu

Creation date: 22.02.2021, Revision: 01.04.2021, version: 3.2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name
6150 B15 Multi-Alu

Product code
6150

UFI:
411J-C0D3-Y00J-0TJW

https://my.chemius.net/p/mGpXSM/en/pd/en

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

Relevant identified uses
No information.

Uses advised against
No information.

1.3 Details of the supplier of the safety data sheet

Supplier
SILCO d.o.o.
Sentrupert 5a
3303 Gomilsko, Slovenia
00386 3 703 3180
n.cvilak@silco.si

1.4 Emergency Telephone Number

Emergency
National Poisons Information Centre: (01) 809 2166

Supplier
00386 3 703 3180

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
Flam. Liq. 3; H226 Flammable liquid and vapour.
Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Eye Irrit. 2; H319 Causes serious eye irritation.
Repr. 2; H361d Suspected of damaging the unborn child.
STOT RE 1; H372 Causes damage to organs (hearing organs, hearing organs) through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Signal word: Danger

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs (hearing organs, hearing organs) through prolonged or repeated exposure.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with national regulation.

Contains:
styrene

2.3 Other hazards

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

NAME	CAS EC INDEX REACH	%	CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP)	SPECIFIC CONC. LIMITS	NOTES FOR SUBSTANCES
styrene	100-42-5 202-851-5 601-026-00-0	15-20	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 Repr. 2; H361d STOT RE 1; H372	/	D
aluminium powder (pyrophoric)	7429-90-5 231-072-3 013-001-00-6	2.5-5	Pyr. Sol. 1; H250.S1 Water-react. 2; H261.2	/	/
Low boiling point naphtha - unspecified	64742-95-6 265-199-0 649-356-00-4	0.1-1	Asp. Tox. 1; H304 Muta. 1B; H340.1B Carc. 1B; H350.1B	/	P

Notes for substances

D	Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".
P	The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4: FIRST AID MEASURES

4.1 First aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Consult a physician.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Following skin contact

Itching, redness, pain. May cause sensitisation by skin contact (itching, redness, rashes).

Following eye contact

Redness, tearing, pain.

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media
Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions
In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters
Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information
No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Protective equipment
No information.

Precautionary measures
Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

Emergency procedures
No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders
Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment
Stem the spill if this does not pose risks.

For cleaning up
Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark-proof tools. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

OTHER INFORMATION
No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8. Avoid exposure - obtain special instructions before using.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition - no smoking.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

NAME	MG/M^3	ML/M^3	SHORT-TERM VALUE MG/M^3	SHORT-TERM VALUE ML/M^3	REMARK	BIOLOGICAL TOLERANCE VALUES
barium sulfate	/	/	/	/		/

Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents.

DNEL/DMEL values

For product

No information.

For components

NAME	TYPE	EXPOSURE ROUTE	EXP. FREQUENCY	REMARK	VALUE
styrene	Worker	inhalation	long term systemic effects	/	85 mg/m³
styrene	Worker	inhalation	short term systemic effects	/	289 mg/m³
styrene	Worker	inhalation	short term local effects	/	306 mg/m³
styrene	Worker	dermal	long term systemic effects	/	406 mg/kg bw/day
styrene	Consumer	inhalation	long term systemic effects	/	10.2 mg/m³
styrene	Consumer	inhalation	short term systemic effects	/	174.25 mg/m³
styrene	Consumer	inhalation	short term local effects	/	182.75 mg/m³
styrene	Consumer	dermal	long term systemic effects	/	343 mg/kg bw/day
styrene	Consumer	oral	long term systemic effects	/	2.1 mg/kg bw/day

PNEC values

For product

No information.

For components

NAME	EXPOSURE ROUTE	REMARK	VALUE
styrene	fresh water	/	0.028 mg/L
styrene	water, intermittent release	/	0.04 mg/L
styrene	marine water	/	0.014 mg/L
styrene	water treatment plant	/	5 mg/L
styrene	fresh water sediment	dry weight	0.614 mg/kg
styrene	marine water sediment	dry weight	0.307 mg/kg
styrene	soil	dry weight	0.2 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance

with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure
No information.

Organisational measures to prevent exposure
Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure
Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment
Eye and face protection
Safety glasses with side protection (EN 166).

Hand protection
Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection
Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2012). At high risk of skin exposure chemical suits (EN ISO 6530:2005) and boots may be required (EN ISO 20345:2012).

Respiratory protection
In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard EN 137, EN 138.

Thermal hazards
No information.

Environmental exposure controls
Substance/mixture related measures to prevent exposure
No information.

Instruction measures to prevent exposure
No information.

Organisational measures to prevent exposure
No information.

Technical measures to prevent exposure
Do not allow product to reach drains, sewage systems or ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state
liquid

Colour
silver

Odour
No information.

Important health, safety and environmental information

Odour threshold	No information.
pH	No information.
Melting point/Freezing point	No information.

Initial boiling point/boiling range	No information.
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Explosion limits (vol%)	No information.
Vapour pressure	No information.
Vapour density	No information.
Density / weight	Density: 1.5758 g/cm^3
Solubility	No information.
Partition coefficient	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	No information.
Explosive properties	No information.
Oxidising properties	No information.

9.2 OTHER INFORMATION

Solids content	53.602 % 26.256 vol %
Weight organic solvents	5.8724 g/l

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5 Incompatible materials

Oxidants.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) Acute toxicity

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	VALUE	METHOD	REMARK
barium sulfate	oral	LD_{50}	rat (male)	/	307 - 364 g/kg	OECD 401	/
barium sulfate	dermal	LD_{50}	rat	/	> 2000 mg/kg bw	OECD 402	/
styrene	oral	LD_{50}	rat	/	5000 mg/kg	/	/
styrene	dermal	LD_{50}	rat	/	> 2000 mg/kg	OECD 402	/
styrene	inhalation	LC_{50}	rat	4 h	11.8 mg/l	/	/
2-phenoxyethanol	oral	LD_{50}	rat	/	1260 mg/kg	/	/
Stiren	oral	LD_{50}	rat	/	5000 mg/kg	/	/
Stiren	dermal	LD_{50}	rat	/	> 2000 mg/kg	OECD 402	/
Stiren	inhalation	LC_{50}	rat	4 h	11.8 mg/l	/	/
2,2'-[(4-methylphenyl)imino]bisethanol	oral	LD_{50}	rat	/	> 300 mg/kg	/	/
maleic anhydride	oral	LD_{50}	rat	/	1090 mg/kg	/	/
maleic anhydride	inhalation	LC_{50}	rat	1 h	> 4.35 mg/l	/	/
maleic anhydride	oral	LD_{50}	rabbit	/	2620 mg/kg	/	/
Trifenilfosfin	oral	LD_{50}	rat	/	700 mg/kg	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	oral	LD_{50}	rat	/	5135 mg/kg	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	dermal	LD_{50}	rabbit	/	9510 mg/kg	/	/

Additional information

The product is not classified for acute toxicity.

(b) Skin corrosion/irritation

For components

NAME	SPECIES	TIME	RESULT	METHOD	REMARK
maleic anhydride	rabbit	/	Corrosive.	/	/
(2-methoxymethylethoxy) propanol	rabbit	/	Mild irritating.	/	/

Additional information

The product is not classified as irritating to skin and eyes. Causes skin irritation.

(c) Serious eye damage/irritation

For components

NAME	EXPOSURE ROUTE	SPECIES	TIME	RESULT	METHOD	REMARK
(2-methoxymethylethoxy) propanol	/	human	/	Mild irritating.	/	/
(2-methoxymethylethoxy) propanol	/	rabbit	/	Mild irritating.	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	/	/	/	Mild irritating.	/	/

(d) Respiratory or skin sensitisation

For components

NAME	EXPOSURE ROUTE	SPECIES	TIME	RESULT	METHOD	REMARK
maleic anhydride	dermal	/	/	Sensitizing.	/	/

Additional information

May cause an allergic skin reaction. The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

For components

NAME	TYPE	SPECIES	TIME	RESULT	METHOD	REMARK
maleic anhydride	in-vitro mutagenicity	/	/	Negative.	/	/
maleic anhydride	in-vivo mutagenicity	/	/	Negative.	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	/	/	/	Not mutagenic.	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	in-vivo mutagenicity	/	/	Negative.	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	in-vitro mutagenicity	/	/	Negative.	/	/

(f) Carcinogenicity

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	VALUE	RESULT
styrene	inhalation (vapours)	NOAEL	rat	/	4.34 mg/l	/
Stiren	inhalation (vapours)	NOAEL	rat	/	4.34 mg/l	/
maleic anhydride	dermal	NOEL	rat	/	100 mg/kg bw/day	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	/	/	/	/	/	negative
DIPROPYLENE GLYCOL MONOMETHYL ETHER	/	/	/	/	/	Not carcinogenic.

(g) Reproductive toxicity

For components

NAME	TYPE	SPECIES	TIME	VALUE	RESULT	METHOD	REMARK
styrene	NOAEL (parents)	rat	/	0.65 - 2.2 mg/L	/	OECD 416	Inhalation (vapour)
styrene	NOAEL (F2)	rat	/	0.22 mg/L	/	OECD 416	Inhalation (vapour)
styrene	NOAEL	rat	/	2.6 mg/L	/	/	Inhalation
styrene	NOAEL	rat	/	2.6 mg/L	/	/	Inhalation
styrene	LOAEL	rat	/	1.3 mg/L	/	/	Inhalation
Stiren	NOAEL (parents)	rat	/	0.65 - 2.2 mg/L	/	OECD 416	Inhalation (vapour)
Stiren	NOAEL (F2)	rat	/	0.22 mg/L	/	OECD 416	Inhalation (vapour)
Stiren	NOAEL	rat	/	2.6 mg/L	/	/	Inhalation
Stiren	NOAEL	rat	/	2.6 mg/L	/	/	Inhalation
Stiren	LOAEL	rat	/	1.3 mg/L	/	/	Inhalation
maleic anhydride	NOAEL	rat	/	55 mg/kg	/	two-generation study	/

Summary of evaluation of the CMR properties

Suspected of damaging the unborn child. The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	ORGAN	VALUE	RESULT	METHOD	EXPOSURE	REMARK
DIPROPYLENE GLYCOL MONOMETHYL ETHER	inhalation (vapours)	-	/	/	central nervous system	/	CNS depression	/	/	literature
DIPROPYLENE GLYCOL MONOMETHYL ETHER	inhalation	/	/	/	/	/	Causes irritation of mucous membrane.	/	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	inhalation	/	/	/	/	/	Product is narcotic at high vapour concentrations.	/	/	/

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	ORGAN	VALUE	RESULT	METHOD	EXPOSURE	REMARK
styrene	inhalation (vapours)	NOAEL	rat	13 weeks	/	0.85 mg/L	/	/	/	6h/day
styrene	inhalation (vapours)	NOAEL	rat	/	/	mg/L	/	OECD 453	/	6h/day
Stiren	inhalation (vapours)	NOAEL	rat	13 weeks	/	0.85 mg/L	/	/	/	6h/day

Stiren	inhalation (vapours)	NOAEL	rat	/	/	mg/L	/	OECD 453	/	6h/day

Additional information

Causes damage to organs through prolonged or repeated exposure. STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

NAME	TYPE	VALUE	EXPOSURE TIME	SPECIES	ORGANISM	METHOD	REMARK
barium sulfate	LC_{50}	> 152 mg/L	96 h	fish	*Danio rerio*	OECD 203	/
barium sulfate	LC_{50}	14500 µg/l	48 h	daphnia	*Daphnia magna*	/	/
barium sulfate	EC_{50}	> 1.15 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	OECD 201	/
barium sulfate	EC_{50}	> 622 mg/L	3 h	bacteria	Activated sludge	OECD 209 Activated Sludge, Respiration Inhibition Test	/
styrene	LC_{50}	4.02 mg/L	96 h	fish	*Pimephales promelas*	/	/
styrene	EC_{50}	4.7 mg/L	48 h	crustacea	*Daphnia magna*	OECD 202	/
styrene	EC_{50}	4.9 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	EPA OTS 797.1050	/
styrene	EC_{50}	ca. 500 mg/L	30 min	bacteria	/	OECD 209	/
styrene	EC_{10}	0.28 mg/L	96 h	algae	*Pseudokirchneriella subcapitata*	EPA OTS 797.1050	/
Stiren	LC_{50}	4.02 mg/L	96 h	fish	*Pimephales promelas*	/	/
Stiren	EC_{50}	4.7 mg/L	48 h	crustacea	*Daphnia magna*	OECD 202	/
Stiren	EC_{50}	4.9 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	EPA OTS 797.1050	/
Stiren	EC_{50}	ca. 500 mg/L	30 min	bacteria	/	OECD 209	/

Stiren	EC_{10}	0.28 mg/L	96 h	algae	*Pseudokirchneriella subcapitata*	EPA OTS 797.1050	/
2,2'-[(4-methylphenyl)imino]bisethanol	LC_{50}	735 mg/L	96 h	fish	/	/	/
maleic anhydride	LC_{50}	75 mg/L	96 h	fish	*Lepomis macrochirus*	/	/
maleic anhydride	LC_{50}	75 mg/L	96	fish	*Oncorhynchus mykiss*	/	/
maleic anhydride	EC_{50}	42.81 mg/L	48 h	crustacea	*Daphnia magna*	/	/
maleic anhydride	EC_{50}	150 mg/L	72 h	algae	*Pseudokirchneriella subcapitata*	/	/
maleic anhydride	EC_{10}	44.6 mg/L	18 h	microorganisms	*Pseudomonas putida*	/	/
1,4-naftokinon	EC_{50}	0.011 mg/L	72 h	algae	Dunaliella biocultura	OECD Guideline 201 (Alga, Growth Inhibition Test)	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	LC_{50}	> 10000 mg/L	96 h	fish	*Pimephales promelas*	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	EC_{50}	1919 mg/L	48 h	crustacea	*Daphnia magna*	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	EC_{50}	1000 mg/L	72 h	algae	*Selenastrum capricornutum*	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	EC_{10}	4168 mg/L	/	bacteria	Pseudomonas putida	/	/

Chronic (long-term) toxicity
For components

NAME	TYPE	VALUE	EXPOSURE TIME	SPECIES	ORGANISM	METHOD	REMARK
barium sulfate	NOEC	≥ 100 mg/l	33 days	fish	*Danio rerio*	OECD 210	/
barium sulfate	EC16	5800 µg/L	21 days	Magna Daphnia	*Daphnia magna*	/	/
styrene	NOEC	1.01 mg/l	21 days	crustacea	*Daphnia magna*	OECD 211	/
Stiren	NOEC	1.01 mg/l	21 days	crustacea	*Daphnia magna*	OECD 211	/
maleic anhydride	NOEC	10 mg/l	21 days	crustacea	*Daphnia magna*	/	/
maleic anhydride	NOEC	11.8 mg/l	72 h	algae	*Pseudokirchneriella subcapitata*	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	NOEC	> 0.5 mg/l	22 days	crustacea	*Daphnia magna*	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

NAME	TYPE	RATE	TIME	EVALUATION	METHOD	REMARK
Talc ($Mg_3H_2(SiO_3)_4$)	Water solubility	< 0.1 mg/L	/	/	/	/
styrene	biodegradability	70.9 %	28 days	readily biodegradable	ISO DIN 9408	aerobic, activated sludge
Stiren	biodegradability	70.9 %	28 days	readily biodegradable	ISO DIN 9408	aerobic, activated sludge
maleic anhydride	biodegradability	> 90 %	/	rapidly biodegradable	OECD 301 B	/
1,4-naftokinon	biodegradability	0 - 60 %	/	/	OECD 301 A-F	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	COD	0.00202 g O_2/g	/	/	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	aerobic	73 %	/	/	/	/

12.3 Bioaccumulative potential

Partition coefficient

For components

NAME	MEDIA	VALUE	TEMPERATURE	PH	CONCENTRATION	METHOD
styrene	Octanol-water (log Pow)	2.96	/	/	/	/
2-phenoxyethanol	log Kow	1.16	/	/	/	/
Stiren	Octanol-water (log Pow)	2.96	/	/	/	/
maleic anhydride	Log Pow	-2.61	/	/	/	/
1,4-naftokinon	log Kow	1.71	/	/	/	/
DIPROPYLENE GLYCOL MONOMETHYL ETHER	Octanol-water (log Pow)	-0.06	/	/	/	/

Bioconcentration factor (BCF)

For components

NAME	SPECIES	ORGANISM	VALUE	DURATION	EVALUATION	METHOD	REMARK
styrene	BCF	fish	13.5	/	/	/	/
styrene	BCF	/	74	/	/	/	Calculated value
Stiren	BCF	fish	13.5	/	/	/	/
Stiren	BCF	/	74	/	/	/	Calculated value

DIPROPYLENE GLYCOL MONOMETHYL ETHER	BCF	/	1	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

NAME	TYPE	CRITERION	VALUE	EVALUATION	METHOD	REMARK
styrene	Soil	log KOC	2.55	/	/	/
styrene	Soil	/	352	/	/	Koc
Stiren	Soil	log KOC	2.55	/	/	/
Stiren	Soil	/	352	/	/	Koc
maleic anhydride	Soil	log KOC	1.63	/	/	/

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Other adverse effects

No information.

12.7 Additional information

For product

Product is not classified as dangerous for environment. Do not allow to reach ground water, water courses or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapour.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information
No information.

Sewage disposal-relevant information
No information.

Other disposal recommendations
No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number			
UN 1866	UN 1866	UN 1866	UN 1866
14.2 UN proper shipping name			
RESIN SOLUTION, *flammable*	RESIN SOLUTION, *flammable*	RESIN SOLUTION, *flammable*	RESIN SOLUTION, *flammable*
14.3 Transport hazard class(es)			
3	3	3	3
			
14.4 Packing group			
III	III	III	III
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 5 L Transport category 3 Tunnel restriction code (D/E)	Limited quantities 5 L EmS F-E, S-E Packing Instructions P001, IBC03, LP01, R001 Special packing provisions PP1 Tank instructions T2 Tank special provisions TP1	Limited Quantity Packing Instructions Y344 Limited Quantity Net Qty 10 L Passenger Packing Instruction Packing Instructions 355 Passenger Packing Instruction Net Qty 25 L Special provisions A3	Limited quantities 5 L
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code			
Goods may not be carried in bulk in bulk containers, containers or vehicles.	Goods may not be carried in bulk in bulk containers, containers or vehicles.	Not given/not applicable	Not given/not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)(including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Regulation EC 648/2004 on detergents
No information.

Special instructions
Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes
1.1 Product identifier 1.2 Relevant identified uses of the substance or mixture and uses advised against 1.3 Details of the supplier of the safety data sheet 2.1 Classification of the substance or mixture 2.2 Label elements 4.1 First aid measures 4.2 Most important symptoms and effects, both acute and delayed 5.1 Extinguishing media 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters 6.1 Personal precautions, protective equipment and emergency procedures 6.3 Methods and material for containment and cleaning up 7.1 Precautions for safe handling 7.2 Conditions for safe storage, including any incompatibilities 8.1 Control parameters 8.2 Exposure controls 9.1 Information on basic physical and chemical properties 9.2 OTHER INFORMATION 11.1 Information on toxicological effects 12.1 Toxicity 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil 13.1 Waste treatment methods 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Key literature references and sources for data
No information.

Abbreviations and acronyms
ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue

EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H226 Flammable liquid and vapour.
H250 Catches fire spontaneously if exposed to air.
H261 In contact with water releases flammable gases.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H340 May cause genetic defects.
H350 May cause cancer.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs (hearing organs, hearing organs) through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.