

ANTISILICONE ADDITIVE

SECTION 1: SUBSTANCE/MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification

ANTISILICONE ADDITIVE
UFI: S2A0-50Q9-W008-74X2

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

An additive for preventing formation of silicone craters („fish eyes”).
For professional use in car refinish.

1.3 Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.
Ul. Łódzka 3
42-240 Rudniki k. Częstochowy, PL

Tel.: + 48 34 329 45 03
Fax: +48 34 320 12 16
Registration number: 000029202

Person responsible for the safety data sheet: ranal@ranal.pl

1.4. Emergency telephone

+48 34 329-45-03 (8:00 - 15:00).

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The mixture was classified as hazardous according to the regulations in force - see section 15 of the Safety Data Sheet.

Classification 1272/2008/EC:

Acute toxicity - (skin) Acute toxicity (after inhalation), hazard category 4 (Acute Tox. 4).

Harmful in contact with skin or if inhaled. Skin irritation, hazard category 2 (Skin Irrit. 2). Causes skin irritation. Flammable liquids hazard category 3 (Flam. Liq. 3). Flammable liquid and vapour.

2.2. Label elements

Contains:
Xylene

Pictograms:



GHS02, GHS07 *
Signal word: **Warning.**

Risk index:

H226 Flammable liquid and vapour.
H312+ H332 Harmful in contact with skin or if inhaled.
H315 Causes skin irritation.

Safety index:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Do not breathe vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Other hazards

Does not contain PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with Annex XIII of REACH. *

The mixture does not contain any substance(s) included in the list established in accordance with Art. 59 sec. 1 of the REACH Regulation due to endocrine disrupting properties or is not identified as endocrine disrupting in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0.1 % by weight. *

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Substance name
Concentration [% weight]
Identification numbers
Classification and labelling

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Xylene

the substance has an occupational exposure limit(s) (PL); substance with a Community-wide occupational exposure limit value * (Note C)*

90-95%

EC: 215-535-7

CAS: 1330-20-7

Index no: 601-022-00-9

Registration no: 01-2119457861-32-XXXX

Classification according to the regulation (EC) no 1272/2008[CLP]: Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315.

Solvent naphtha (petroleum), light containing aromatic hydrocarbons.

Low-boiling petroleum unspecified; [A complex combination of hydrocarbons obtained from the distillation of aromatic hydrocarbons. It consists mainly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).] *

(Note P)*

<1 %

EC: 265-199-0

CAS: 64742-95-6

Index no: 649-356-00-4

Registration no: 01-2119455851-35-XXXX

with Note H and Note P, benzene content by weight (EINECS No. 200-753-7) less than <0.1%:

Classification according to the regulation (EC) no 1272/2008[CLP]: Flam. Liq. 3, H226; STOT SE 3, H335, H336; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; EUH066.

Note C: Some organic substances are placed on the market as a specific isomer or as a mixture of several isomers. In this case, the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers. *

Note P: The classification as a carcinogen or mutagen does not need to be applied if it can be shown that the substance contains less than 0.1 % w/w benzene (Einecs No 200-753-7). If the substance is not classified as a carcinogen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 apply. This note applies only to certain complex petroleum substances listed in Part 3. *

Full text of hazard statements provided in section 16 of the Sheet.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: See section 11 of the Material Safety Data Sheet.

Airways: If difficulties in breathing occur, remove the victim to fresh air and keep at rest in a position comfortable for breathing. *

Skin: In case of skin contamination, immediately remove all contaminated clothing and wash contaminated skin with plenty of soap and water. Rinse skin with water/or shower. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation persists, consult a doctor. *

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a doctor. In the case of contact with eyes, immediately rinse with plenty of water and get medical advice. *

Alimentary tract: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor. *

4.2. Most important symptoms both acute and delayed

Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking.

May cause eye irritation.*

4.3. Indications of any immediate medical attention and special treatment needed

Symptomatic treatment. *

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: Extinguishing powder, foam resistant to alcohol, carbon dioxide, water mist.

Unsuitable extinguishing agents: a strong stream of water. *

5.2. Special hazards arising from the substance or mixture

As a result of a fire, carbon monoxide and other toxic gases may be generated. *

5.3. Advice for fire fighters

Do not intervene without appropriate protective equipment. Self-contained, breathing apparatus. Complete protective clothing. *

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

For personnel non taking part in emergency procedures:

Eliminate ignition sources. Provide sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protection measures – see section 8 of the Sheet.

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For personnel taking part in emergency procedures:

Persons giving aid should wear protective clothing made of coated impregnated fabric, protective gloves (viton), tight protective glasses and breathing apparatus: gas mask with A type absorber

6.2. Environmental precautions

Prevent from penetrating into sewage system, surface water, ground water and soil.

6.3. Methods and materials for containment and cleaning up

Cover the spilled product with a non-combustible material such as sand, earth, vermiculite. Collect the product mechanically. *

6.4 Reference to other sections

Personal protection measures – see section 8 of the Sheet.

Disposal considerations – see section 13 of the Sheet.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Provide good ventilation of the workplace. Keep away from heat sources, hot surfaces, sources of sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Wear personal protection measures. *

Hygiene recommendations*: Wash contaminated clothes before using them again. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink and smoke when using the product. Wash hands after each contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures*:

Ground/bond container and receiving equipment.

Storage conditions*:

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

7.3 Special end use (s)

No further data available. *

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

National values of the highest permissible concentrations in the work environment and biological limit values*:

Xylene (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m ³
IOEL STEL [ppm]	100 ppm
Warning	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Poland- The highest permissible concentration at the workplace	
Local name	Xylene mixture of isomers: 1,2-; 1,3-; 1,4-
NDS (OEL TWA)	100 mg/m ³
NDSCh (OEL STEL)	200 mg/m ³
Regulatory reference	Official Journal 2018, item 1286

Monitoring method*:

EN 482. Exposure at workplaces– general requirements for the characteristics of chemical agents measurement procedures.

Air pollutants formation*:

No further data available.

DNEL and PNEC*:

Xylene (1330-20-7)	
DNEL/DMEL (Workers)	
Acute - systemic effects after inhalation	289 mg/m ³
Acute - local effects after inhalation	289 mg/m ³
Long-term - systemic effects, in contact with skin	180 mg/kg body weight /day
Long - term systemic effects after inhalation	77 mg/m ³

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Xylene (1330-20-7)	
DNEL/ DMEL (General population)	
Acute - systemic effects after inhalation	174 mg/m ³
Acute - local effects after inhalation	174 mg/m ³
Long - term systemic effects after ingestion	1.6 mg/kg body weight /day
Long - term systemic effects after inhalation	14.8 mg/m ³
Long-term - systemic effects, in contact with skin	108 mg/kg body weight /day
PNEC (Water)	
PNEC (freshwater)	0.327 mg/l
PNEC (sea water)	0.327 mg/l
PNEC aqua (intermittent, freshwater)	0.327 mg/l
PNEC (Sediments)	
PNEC sediments (freshwater)	12.46 mg/kg of dry mass
PNEC sediments (sea water)	12.46 mg/kg of dry mass
PNEC (Soil)	
PNEC Soil	2.31 mg/kg of dry mass
PNEC (STP)	
PNEC Sewage Treatment Plant	6.58 mg/l
Solvent naphtha (petroleum), light aromatic hydrocarbons; Low-boiling gasoline - unspecified; [A complex combination of hydrocarbons produced by the distillation of aromatic hydrocarbons. It consists mainly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).] (64742-95-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects after inhalation	1286.4 mg/m ³
Acute - local effects after inhalation	1066.67 mg/m ³
Long - term local effects after inhalation	837.5 mg/m ³
DNEL/ DMEL (General population)	
Acute - systemic effects after inhalation	1152 mg/m ³
Acute - local effects after inhalation	640 mg/m ³
Long - term local effects after inhalation	178.57 mg/m ³

Risk management*: No further data available.

8.2. Exposure control

Technical control measures*:
 Provide good ventilation of the workplace.

Symbols of personal protective equipment*:



Eyes protection:
 Safety glasses *

Skin and body protection:
 Proper protective clothes (coated impregnated fabrics).

Hands protection:
 Protective gloves PN-EN 374-3 (viton, thickness 0.7 mm, penetration time >480 min.; nitrile rubber, thickness 0.4 mm, penetration time >30 min.). *

Respiratory protection:
 Gas mask with A1/ B1 type absorber (EN 14387). *

Thermal hazards*:
 No further data available.

Environmental control:
 Prevent from penetrating into sewage system, surface water, ground water and soil.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Physical state	liquid
Colour:	clear
Odour	strong, penetrating
Odour threshold	0.9-9 mg/m ³ (xylene)
Melting point	not applicable*
Freezing point	not available*
Boiling point	140°C
Flammability of the materials*	Not applicable
Explosive properties	no data*
Explosion limits*	not available
Bottom Explosion limit*	1.1 vol. % xylene
Top Explosion limit*	8 vol. % xylene
Flash point	24°C
Auto ignition point	400°C
Breakdown point	not specified
pH	not applicable.
Kinematic viscosity	3 mm ² /s *
Solubility	poor
n-octanol/water partition coefficient (log Kow)*	not available*
Vapour pressure at 20°C	9 hPa (xylene)
Vapour pressure at 50°C*	not available
Density	app. 0.86 g/cm ³ *
Relative density*	not available
Relative vapour density at 20°C*	not available
Particle characteristics*	not applicable

9.2. Other information

No data.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is not reactive under normal conditions.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions under normal conditions of use unknown. *

10.4. Conditions to be avoided

Flammable product. Avoid contact with strong oxidants, peroxides, strong acids and bases. Avoid generation and accumulation of static electricity. Protect from sunlight and heat sources.

10.5. Incompatible materials

Avoid contact with large amounts of organic peroxides, strong acids and bases, as well as other strong oxidants.

10.6. Hazardous decomposition products

No hazardous product shall be formed under normal conditions of storage and use. Thermal decomposition may produce: Carbon monoxide. Other toxic gases. *

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008*

Acute toxicity*:

Acute toxicity (oral): Not classified (based on available data the classification criteria are not met)

Acute toxicity (skin): Harmful in contact with skin.

Acute toxicity (inhalation): Harmful if inhaled.

ATE CLP*:

ATE CLP (skin): 1692.308 mg/kg bw

ATE CLP (dust, mist): 2.308 mg/l/4h

Xylene (1330-20-7)	
LD50 oral, rat	3523 mg/kg (rat)
LD50 skin, rabbit	12126 mg/kg body weight Animal: rabbit, Animal sex: male
LC50 inhalation - rat	27124 mg/l

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Solvent naphtha (petroleum), light aromatic hydrocarbons; Low-boiling gasoline - unspecified; [A complex combination of hydrocarbons produced by the distillation of aromatic hydrocarbons. It consists mainly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).] (64742-95-6)

LD50 oral, rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50, skin, rat	> 2000 mg/kg Source: ECHA
LC50 inhalation - rat (vapours)	5.16 mg/l Source: ECHA

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: No data confirming the hazard class.

Allergic effect on airways or skin: The mixture is not classified as sensitizing. No data confirming the hazard class.

Mutagenic effect on germ cells: The mixture is not classified as mutagenic. No data confirming the hazard class.

Carcinogenicity: The mixture is not classified as carcinogenic. No data confirming the hazard class.

Harmful effect on reproduction: The mixture is not classified as having harmful effect on reproduction. No data confirming the hazard class.

Specific target organ toxicity – single exposure: No data confirming the hazard class.

Solvent naphtha (petroleum), light aromatic hydrocarbons; Low-boiling gasoline - unspecified; [A complex combination of hydrocarbons produced by the distillation of aromatic hydrocarbons. It consists mainly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).] (64742-95-6)

Specific target organ toxicity – single exposure:	May cause drowsiness or dizziness. May cause respiratory irritation.
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Specific target organ toxicity – repeated exposure: No data confirming the hazard class.

Xylene (1330-20-7)

LOAEL (oral, rat, 90 days)	150 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
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Aspiration hazard: No data confirming the hazard class.

Antisilicone additive

Kinematic viscosity	3 mm ² /s
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Solvent naphtha (petroleum), light aromatic hydrocarbons; Low-boiling gasoline - unspecified; [A complex combination of hydrocarbons produced by the distillation of aromatic hydrocarbons. It consists mainly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F).] (64742-95-6)

Kinematic viscosity	< 1 mm ² /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm ² /s)'
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11.2 Information on other hazards*

No further data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Hazardous for the aquatic environment, short-time (acute)*: Not classified (based on available data the classification criteria are not met).

Hazardous to the aquatic environment, long-term (chronic)*: Not classified (based on available data the classification criteria are not met).

It is not easily degradable. *

Xylene (1330-20-7)

LC50 - Fish [1]	2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustaceans [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
NOEC for chronic toxicity to fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'

Solvent naphtha (petroleum), light aromatic hydrocarbons; Low-boiling gasoline - unspecified; [A complex combination of hydrocarbons produced by the distillation of aromatic hydrocarbons. It consists mainly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).] (64742-95-6)

LC50 - Fish [1]	9.22 mg/l Source: IUCLID
EC50 - Crustaceans [1]	6.14 mg/l Source: IUCLID
EC50 72h - Algae [1]	19 mg/l Source: IUCLID

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

Solvent naphtha (petroleum), light aromatic hydrocarbons; Low-boiling gasoline - unspecified; [A complex combination of hydrocarbons produced by the distillation of aromatic hydrocarbons. It consists mainly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135 °C to 210 °C (275 °F to 410 °F).] (64742-95-6)*

n-octanol/water partition coefficient (Log Pow):	2.1 – 6: IUCLID
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12.4. Mobility in soil

No further data available. *

12.5 Results of PBT and vPvB assessment

No data.

12.6. Endocrine disrupting properties*

No data.

12.7. Other hazardous effects*

No further data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of according to applicable local and official waste regulations – see section 15.

Contaminated container should be handed over to entities, which are authorized to collect, recover or dispose of wastes.

Product remains:

Waste code 07 01 04

Other organic solvents, washing liquids and mother liquors. Do not discharge the product into the sewage system. Must not be disposed of with municipal waste. The remains of the product in the packaging should be carefully removed and allowed to dry completely (only in well-ventilated rooms).

ATTENTION: The remains should be dried only in well-ventilated rooms, away from flammable products.

Contaminated packaging:

Packaging containing unhardened product remains is hazardous waste.

Waste code: 15 01 10

Packaging containing residues of or contaminated by dangerous substances (e.g. pesticides of I and II class of toxicity – very toxic and toxic). Must not be disposed of with municipal waste. Contaminated container should be handed over to entities, which are authorized to collect, recover or dispose of wastes.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number*

1263

14.2. UN proper shipping name

*

ADR PAINT RELATED MATERIAL

IMGD PAINT RELATED MATERIAL

IATA Paint related material

Description of the shipping document*:

ADR 1263 PAINT RELATED MATERIAL, 3, III, (D/E)

IMDG UN 1263 PAINT RELATED MATERIAL, 3, III (24°C c.c.)

IATA UN 1263 Paint related material, 3, III

14.3. Transport hazard class (-es)

3



*

14.4. Packaging group

III

14.5. Environmental hazards

No.

Environmentally hazardous: No.

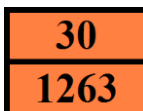
Marine pollutants: No.

14.6. Special precautions for users

Road transport:

Classification code (ADR):	F1
Limited Quantities (ADR):	5 I
Special packing provisions (ADR):	PP1
Mixed Packing Regulations (ADR):	MP19
Transport category (ADR):	3
Special provisions for carriage - Packages:	V12

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Orange Tiles:
Tunnel restriction code (ADR):

D/E

Sea transport:

Special provisions (IMDG):	163, 223, 367, 955
Limited quantities (IMDG):	5 L
Special packing provisions (IMDG):	PP1
EmS number (Fire):	F-E
EmS number (Spillage):	S-E
Cargo Stowage Category (IMDG):	A

Air transport:

No data.

14.7. Sea transport in bulk in accordance with IMO instruments*

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislations specific for the substance or mixture:

EU Provisions*:

Annex XVII to the REACH Regulation (restriction conditions): It does not contain substances listed in Annex XVII to the REACH Regulation (restriction conditions).

Annex XIV to the REACH Regulation (List of Authorizations): It does not contain substances listed in Annex XIV to the REACH Regulation (List of Authorizations).

REACH Candidate List (SVHC): Contains no substances listed on the REACH Candidate List.

PIC Regulation (EU 649/2012, Prior Informed Consent): It does not contain substances listed on the PIC list (EU Regulation 649/2012 on the export and import of dangerous chemicals).

POP Regulation (EU 2019/1021, Persistent Organic Pollutants): It does not contain substances listed on the POP list (EU Regulation 2019/1021 on the export and import of dangerous chemicals).

Ozone Depletion Regulation (EU 1005/2009): Contains no substances listed in the ozone depleting list (EU Regulation 1005/2009 on substances that deplete the ozone layer).

Explosives Precursors Regulation (EU 2019/1148): It does not contain substances listed on the list of explosives precursors (EU Regulation 2019/1148 on the marketing and use of explosives precursors).

Drug Precursors Regulation (EC 273/2004): It does not contain any substance(s) listed on the list of drug precursors (Regulation EC 273/2004 on the manufacture and marketing of certain substances used for the illicit manufacture of narcotic drugs and psychotropic substances).

Other regulations (Poland)*:

Material Safety Data Sheet EU format according to Commission Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

ADR Agreement: Government Statement of February 18, 2021 on the entry into force of amendments to Annexes A and B of the European Agreement on the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957. (Journal of Laws of 2019, , item 874).

15.2. Chemical safety assessment

Not performed.

SECTION 16: OTHER INFORMATION

Material Safety Data Sheet EU format according to Commission Regulation (EU) 2020/878.

Explanation of abbreviations and acronyms used in the MSDS:

COD	Chemical oxygen demand (COD).
DMEL	Derived level causing minimal changes.
DNEL	Derived no effect level.
EC number:	European Community number.
EC50	Medium effective concentration.
EN	European standard.
IARC	International Agency for Research on Cancer.
IATA	International Air Transport Association.
IMDG	International Maritime Code for Dangerous Goods.
LC50	The concentration of the substance causing the death of 50% of the population of test organisms.

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LD50	The Dose causing the death of 50% of the population of test organisms.
LOAEL	The lowest level at which harmful changes are observed.
NOAEC	Concentration at which no adverse effects are observed.
NOAEL	Dose level at which no adverse effects are observed.
NOEC	Maximum Concentration at which no adverse effects are observed.
OECD	Organization for Economic Cooperation and Development.
OEL	Occupational exposure limit value.
PBT	substance, which is Persistent, Bio-accumulative and Toxic.
PNEC	Predicted no-effect concentration.
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail.
SDS	Material Safety Sheet.
STP	Sewage Treatment Plant.
ThOD	Theoretical Oxygen Demand (ThOD).
TLM	Middle tolerance limit.
VOC	Volatile Organic Compounds.
CAS number	CAS number.
N.O.S.	Not otherwise specified.
vPvB	very Persistent and very Bio-accumulative.
ED	Endocrine disrupting properties.

Data sources: ECHA (European Chemicals Agency).

Tips for training.: Use in accordance with health and safety rules and safety procedures.

Full text of hazard statements mentioned in section 2 - 15 of the Sheet:

Acute Tox. 4 (Skin)	Acute toxicity (skin), category 4.
Acute Tox. 4 (Inhalation)	Acute toxicity (after inhalation), category 4.
Aquatic Chronic 2	Hazardous to the aquatic environment – chronic hazard, category 2.
Asp. Tox. 1	Aspiration hazard, category 1.
Flam. Liq. 3	Flammable liquid, category 3.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long-lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3, narcotic effect

Classification and procedure used to determine the classification of mixtures according to the Regulation (EC) 1272/2008[CLP]

Flam. Liq. 3 H226	Based on research results
Acute Tox. 4(Skin)	H312 Calculation method
Acute Tox. 4 (Inhalation: dust, mist)	H332 Calculation method
Skin Irrit. 2	H315 Calculation method

Changes in the in Sheet compared to the previous version:

Update of sections:

9: rewording of sub-section 9.1: Information on basic physical and chemical properties

11: rewording of sub-section 11.1: Information on the hazard classes defined in Regulation (EC) No 1272/ 2008: added subsection 11.2.

Information on other hazards

12: new subsection 12.6: Endocrine disrupting properties.

14: rewording of sub-section 14.1: UN number or ID number; rewording of sub-section 14.7: Sea transport in bulk in accordance with IMO instruments.

Changes in the content of sections:

2.2, 2.3, 3.2, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 6.3, 7.1, 7.2, 7.3, 8.1, 8.2, 9.1, 10.3, 10.6, 11.1, 11.2, 12.1, 12.3, 12.4, 12.6, 12.7, 14.1, 14.2, 14.3, 14.6, 14.7, 15.1, 16.

General update.

Sheet number: 06-0P1L-0123-V4