

PRE-FILL SPRAY

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

1.1. Product identification

Trade name: **PRE-FILL SPRAY**
UFI: **KX80-K0R4-W00T-MQ7**

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

Use of the substance/mixture: Coating spray.
No further relevant data available.

1.3. Data of the safety data sheet supplier

Przedsiębiorstwo **RANAL Sp. z o.o.**
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42-240 Rudniki k. Częstochowy, PL

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

Classification according to the regulation (EC) no 1272/2008.



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS05 corrosive effect

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

2.2. Label elements

Classification according to the regulation (EC) no 1272/2008: The product has been classified and labelled according to CLP regulation.

Hazard pictograms:



GHS02 GHS05 GHS07

Signal word Danger.

Components indicating hazard for labelling:

Butan-1-one. Acetone. Butyl acetate.

Hazard statement

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container – Do not pierce or burn, even after use.
P260 Do not breathe spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection.
P302+P352* IF ON SKIN: Wash skin with plenty of water and soap.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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P403 Store in a well-ventilated place.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on components

3.1. Substances

Not applicable.

3.2. Mixtures

Description: Mixture of biocatalysts with liquid propellant.

Hazardous components:

Dimethyl ether

CAS: 115-10-6

EINECS: 204-065-8

Reg. no.: 01-2119472128-37,

Flam. Gas 1, H220; Press. Gas (Comp.), H280.

50 - < 75%

Acetone

CAS: 67-64-1

EINECS: 200-662-2

Reg. no.: 01-2119471330-49,

Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

25 - < 50%

Butyl acetate

CAS: 123-86-4

EINECS: 204-658-1

Reg. no.: 01-2119485493-29,

Flam. Liq. 3, H226; STOT SE 3, H336

2.5 - < 10%

Butan-1-ol

CAS: 71-36-3

EINECS: 200-751-6

Reg. no.: 01-2119484630-38,

Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336

≥ 3 - < 10%

2-butoxyethanol

CAS: 111-76-2

EINECS: 203-905-0

Reg. no.: 01-2119475108-36,

Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319

1 - < 2.5%

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

After inhalation: Supply fresh air, in case of disturbances, consult a doctor.

After contact with skin: In general the product does not irritate skin.

After contact with eyes: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting and call a doctor.

4.2. Most important symptoms both acute and delayed

No further relevant data available.

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

No further relevant data available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents: Water mist. Extinguishing powder. Carbon dioxide. Foam resistant to alcohol.

Extinguishing media unsuitable due to safety considerations: Full jet of water.

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5.2. Special hazards arising from the substance or mixture

No further relevant data available.

5.3. Advice for fire fighters

Special protective equipment: Wear respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency measures

Wear protective clothing. Move unprotected persons to a safe place.

6.2. Environmental precautions:

Prevent from reaching sewage system or water courses. In the event of leakage into water course or sewage system inform competent authorities. Do not allow entering sewage system /surface water /ground water.

6.3. Methods and materials for containment and cleaning up

Ensure adequate ventilation. Do not wash with water or water based cleaning agents.

6.4. Reference to other sections

Information on safe handling see section 7. Information on personal protective measures see section 8. Information on disposal see section 13.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace.

Information about fire and explosion protection:

Do not spray towards flames or over glowing material. Keep ignition sources away - do not smoke. Take precautionary measures against static discharges. Warning: Pressurized container. Protect from sunlight and temperatures above 50°C. Do not open violently and do not burn even after use.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Keep cool. Observe regulations concerning the storage of pressurized gas tanks.

Information about common storage: Observe regulations concerning the storage of pressurized gas tanks.

Further information about storage conditions:

Store in well-sealed barrels in a cool and dry place. Protect against heat and direct sunlight.

7.3. Special end use (s)

No further relevant data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with limit values that require monitoring depending on the workplace:

115-10-6 dimethyl ether

MPC: 1000 mg/m³

67-64-1 Acetone

MPIC: 1800 mg/m³

MPC: 600 mg/m³

123-86-4 Butyl acetate

MPIC: 720 mg/m³

MPC: 240 mg/m³

71-36-3 butan-1- ol

MPIC: 150 mg/m³

MPC: 50 mg/m³

Skin

111-76-2 2-butoxyethanol

MPIC: 200 mg/m³

MPC: 98 mg/m³

Skin

DNEL values:

67-64-1 Acetone

Oral DNEL Long term-systemic

62 mg/kg bw/day (Consumer)

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Skin	DNEL Long term-systemic	62 mg/kg bw/day (Consumer) 186 mg/kg bw/day (Worker)
Inhalation	DNEL Acute-local DNEL Long term-systemic	2420 mg/m ³ (worker) 200 mg/m ³ (Consumer) 1210 mg/m ³ (Worker)

123-86-4 Butyl acetate

Oral*	DNEL Acute-systemic DNEL Long term-systemic	2 mg/kg bw/ day (Consumer) 2 mg/kg bw/day (Consumer)
Dermal*	DNEL Acute systemic DNEL Long term-systemic	6 mg/kg bw/ day(Consumer) 11 mg/kg bw/day (Worker) 3.4 mg/kg bw/day (Consumer) 7 mg/kg bw/day (Worker)
Inhalation	DNEL Acute-systemic DNEL Acute-local DNEL Long term-systemic DNEL Long-term - local*	300 mg/m ³ (Consumer) 600 mg/m ³ * (Worker) 300 mg/m ³ * (Consumer) 600 mg/m ³ * (Worker) 12 mg/m ³ * (Consumer) 48 mg/m ³ * (Worker) 35.7 mg/m ³ * (Consumer) 300 mg/m ³ * (Worker)

71-36-3 butan-1- ol

Oral	DNEL Long term-systemic	3125 mg/kg bw/day *(Consumer) 0.3 mg/kg bw/day * (Worker)
Skin*	DNEL Long term-systemic	2.7 mg/kg bw/day (Consumer) 5.5 mg/kg bw/day (Worker)
Inhalation	DNEL Acute-systemic* DNEL Long term-systemic* DNEL Long-term - local*	159.8 mg/m ³ (Consumer) 214 mg/m ³ (Worker) 0.5 mg/m ³ (Consumer) 2.7 mg/m ³ (Worker) 55 mg/m ³ * (Consumer) 310 mg/m ³ * (Worker)

111-76-2 2-butoxyethanol*

Oral	DNEL Acute-systemic DNEL Long term-systemic	26.7 mg/kg bw/ day (Consumer) 6.3 mg/kg bw/day (Consumer)
Inhalation	DNEL Acute-systemic DNEL Acute-local DNEL Long term-systemic	426 mg/m ³ (Consumer) 1091 mg/m ³ (Worker) 147 mg/m ³ (Consumer) 246 mg/m ³ (Worker) 59 mg/m ³ (Consumer) 98 mg/m ³ (Worker)

PNEC values*:

67-64-1 Acetone

PNEC Sea water	1.06 mg/l (Undefined)
PNEC Fresh water sediment	30.4 mg/l (dry weight) (Undefined)
PNEC Soil	29.5 mg/kg (Undefined)
PNEC Sea water sediment	3.04 mg/l (dry weight) (Undefined)

123-86-4 Butyl acetate

PNEC Fresh water	0.18 mg/l (Undefined)
PNEC Sea water	0.015 mg/l (Undefined)
PNEC Fresh water sediment	0.981 mg/l (dry weight) (Undefined)
PNEC Intermittent release	0.36 mg/l (Undefined)
PNEC Soil	0.0903 mg/kg (Undefined)
PNEC Sewage treatment plant	35.6 mg/l (Undefined)
PNEC Sea water sediment	0.0981 mg/l (dry weight) (Undefined)

111-76-2 2-butoxyethanol

PNEC Fresh water	8.8 mg/l (Undefined)
PNEC Sea water	0.88 mg/l (Undefined)
PNEC Fresh water sediment	34.6 mg/l (dry weight) (Undefined)
PNEC Intermittent release	9.1 / mg/l (Undefined)
PNEC Soil	2.33 mg/kg (Undefined)
PNEC Sewage treatment plant	463 mg/l (Undefined)
PNEC Sea water sediment	3.46 mg/l (dry weight) (Undefined)

Additional information*:

The currently valid lists were used as basis.

8.2. Exposure control

Technical control measures:

No further data, see section 7.

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Personal protective measures:

General measures of protection and hygiene:

Keep away from foodstuffs, beverages and feed. Immediately take off all soaked and contaminated clothing. Wash hands before each break and at the end of work. Do not breathe gases/ vapours / spray. Avoid contact with eyes. Avoid contact with eyes and skin. General ventilation.

Respiratory protection

In case of insufficient ventilation use respiratory protection.

Filter A2/P2

Hands protection:

The glove material has to be impermeable and resistant to the product/substance/preparation.

Due to the lack of testing, no recommendation can be made regarding glove material for protection against the product/preparation/chemical mixture.

Use protective gloves to work with chemicals according to standard EN 374.



Protective gloves.

Gloves resistant to solvents.

Selection of the glove material on consideration of the breakthrough times, rates of diffusion and degradation.

Penetration time of the glove material:

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. As the product is a mixture consisting of several substances the resistance of the materials from which the gloves are made cannot be calculated in advance and should therefore be checked before use.

Nitrile rubber.

Recommended thickness of the material: ≥ 0.5 mm.

Penetration time of the glove material::

For continuous contact, it is recommended to use gloves with a tensile strength of not less than 240 minutes, with a penetration time of more than 480 minutes as priority. For short-time works or splash protection we recommend the same. We understand that gloves that offer this level of protection may not be in stock. In that case, a shorter breakthrough time is acceptable as long as the procedures governing maintenance and timely replacement are followed. The thickness of the glove is not a good measure of the glove's chemical resistance as it depends on the exact composition of the glove material.

Information about the penetration time of the substance should be obtained from the glove manufacturer and has to be observed.

Eyes protection:

Protective glasses (EN-166).

Tightly sealed protective glasses.

Body protection:

Use protective clothing (EN-13034/6)

It is recommended to use antistatic, chemical and oil-resistant clothing as well as safety shoes. (EN1149; EN340&EN ISO 13688; 13034-6).

Environmental control:

Use an appropriate container to prevent environmental contamination.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Form:	Aerosol
Colour:	according to product name
Odour:	Characteristic
Odour threshold:	Not specified.
Melting /freezing point:	Not specified.
Initial boiling point and boiling range:	-24.8 °C *(115-10-6 dimethyl ether*)
Flammability of materials:	Not applicable.

Explosion limits:

Bottom:	1.1 Vol %
Top:	18.6 Vol %
Flash point:	-42°C (115-10-6 dimethyl ether*)
Auto ignition point:	235°C *
pH-value:	The mixture is non-polar / aprotic*

Viscosity:

Dynamic:	Not specified.
Kinetic:	Not specified.

Solubility in/miscibility with

Water:	Not miscible or difficult to mix.
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n-octanol/water partition coefficient (Log Pow*): Not specified.
Vapour pressure at 20 °C: 5200 hPa Not specified.
Density at 20°C: 0.722 g/cm³
Relative density: Not specified.
Vapour density: Not specified.

9.2. Other information*

Form*: Aerosol

Important information on health and environment protection and safety*:

Ignition temperature: The product is not self-igniting.
Explosive properties: The product is not explosive, but may form explosive mixtures with the air
Organic solvents: 100.0%.
Evaporation rate: Not applicable.

Information with regard to physical hazard classes*:

Explosives: none
Flammable gases: none
Aerosols: Extremely flammable aerosol. Pressurized container: May burst if heated.
Oxidizing gases: none
Gases under pressure: none
Flammable liquids: none
Flammable solids: none
Self-reactive substances and mixtures: none
Pyrophoric liquids: none
Pyrophoric solids: none
Self-heating substances and mixtures: none
Substances and mixtures which emit Flammable none
Oxidizing liquids: none
Oxidizing solids: none
Organic peroxides: none
Substances corrosive to metals: none
Desensitised explosives: none

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant data available.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used as intended.

10.3. Possibility of hazardous reactions

Hazardous reactions unknown.

10.4. Conditions to be avoided

No further relevant data available.

10.5. Incompatible materials

No further relevant data available.

10.6. Hazardous decomposition products

Hazardous decomposition products unknown.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity: Based on available data, the classification criteria are not met.

Relevant classified LD/LC50 values*:

ATE (Estimated acute toxicity)

Oral LD50 24600 mg/kg
Inhalation ATE 226 mg/l, 4h

67-64-1 Acetone

Oral LD50 5800 mg/kg (Rat) (Acute Oral Toxicity)
ATE 5800 mg/kg (Rat)
Dermal LD50 7800 mg/kg (Rabbit)
ATE 20000 mg/kg (nd)
> 15800 mg/kg (Rabbit)
Inhalation LC50(4h) >20 mg/l (Rat)
ATE 76 mg/l, 4h (Rat)

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123-86-4 Butyl acetate

Oral	LD50	10760 mg/kg	(Rat)
Dermal	LD50	> 14112 mg/kg	(Rabbit)

71-36-3 Butan-1- ol

Oral	LD50	2292 mg/kg	(Rat)
Dermal	LD50	3430 mg/kg	(Rabbit)
Inhalation	LC50(4h)	21 mg/l	(Rat)

111-76-2 2-butoxyethanol

Oral	LD50	1200 mg/kg (ATE)	
		1414 mg/kg	(Guinea pig) (Acute Oral Toxicity)
Oral	LD50	> 2000 mg/kg	(Guinea pig) (Acute Dermal Toxicity)
Inhalation	LC0	>3,1 mg/l /1h	(Guinea pig)
	LC50	>400 mg/l /l/7h	(Guinea pig)

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Allergic effect on airways or skin: Based on available data, the classification criteria are not met.

Mutagenic effect on germ cells: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Harmful effect on reproduction: Based on available data, the classification criteria are not met.

Specific target organ toxicity – single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.2. Information on other hazards*

Endocrine disrupting properties: None of the components are listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acquatic toxicity:

67-64-1 Acetone

EC50	8800 mg/l	(Dm)
	8300 mg/l	(Fish)

123-86-4 Butyl acetate

LC50/96h	18 mg/l	(fish)
EC50/ 48h	44 mg/l	(Dm)

71-36-3 butan-1- ol

NOEC (21 days)	4.1 mg/l	(Dm)
LC50/ 96h	1376 mg/l	(Pimephales promelas)
EC50/48h	1328 mg/l	(Dm)
EC50	225 mg/l	(Selenastrum capricornatum (72 h))

111-76-2 2-butoxyethanol*

LC50	1300 mg/l /96h	(Lepomis macrochirus) (Fish, Acute Toxicity Test)
NOEC	286 mg/l /72h	(Pseudokirchneriella subcapitata) (Freshwater Alga and Cyanobacteria, Growth Inh.test)
NOEC (21 days)	100 mg/l	(Daphnia magna) (Daphnia magna Reproduction Test)
EC0	700 mg/l /16h	(Pseudomonas putida)
EC50	1550 mg/l /48h	(Daphnia magna)
	1840 mg/l /72h	(Algae) (Freshwater Alga and Cyanobacteria, Growth Inh.test)
LC50	1474 mg/l	(Oncorhynchus mykiss)

12.2. Persistence and degradability

Not easily biodegradable. *

12.3. Bioaccumulative potential

No further relevant data available.

12.4. Mobility in soil

No further relevant data available.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Endocrine disrupting properties*

The product does not contain substances with endocrine disrupting properties.

12.7. Other hazardous effects*

Further ecological information (general information):

Water hazard class 1 (in Self-assessment): slightly hazardous to water.

Do not allow undiluted product or large quantities of the product to enter groundwater, surface water or the sewage system.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation: Must not be disposed together with household garbage. Prevent from reaching sewage system.

European waste catalogue*:

HP3 Flammable
HP4 Irritating - causing skin irritation and eye damage.
HP5 Specific Target Organ Toxicity (STOT) or aspiration hazard.

Contaminated packaging:

Recommendation: Dispose of according to applicable regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number*

ADR, ADN, IMDG, IATA: UN1950

14.2. UN proper shipping name

ADR, ADN UN1950 AEROSOLS
IMDG AEROSOLS
IATA AEROSOLS, flammable

14.3. Transport hazard class (-es)

ADR
Class 2 5F gases
Label 2.1



*

ADN
Class ADN/R: 2 5F

IMDG, IATA
Class 2.1
Label 2.1



*

14.4 Packaging group

ADR, IMDG, IATA none

14.5. Environmental hazards:

Marine pollutants: No

14.6. Special precautions for users

Warning: gases

Kemler's code: -

EMS Number: F-D,S-U

Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

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

Not applicable.

Transport/ further information:

ADR
Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

Tunnel restriction code D

IMDG
Limited quantities (LQ) 1L
Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

UN "Model Regulation": UN 1950 AEROSOLS, 2.1,

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SECTION 15: REGULATORY INFORMATION

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

Directive 2012/18/EU

Indicated dangerous components- ANNEX I None of the components are listed.

Seveso category: P3a FLAMMABLE AEROSOLS.

Qualifying quantity (tonnes) for the application of lower-tier requirements: 150t

Qualifying quantity (tonnes) for the application of upper-tier requirements: 500t

Regulation (EC) no 1907/2006 ANNEX XVII: Restriction conditions: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

– **Annex II***: none of the components is listed.

REGULATION (EU) 2019/1148*

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit for the purpose of licensing according to Article 5 item 3):

None of the components are listed.

Annex II - EXPLOSIVE PRECURSORS SUBJECT TO NOTIFICATION: 67-64-1 acetone.

Regulation (EC) No 273/2004 on drug precursors: 67-64-1 acetone: 3.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: 67-64-1 acetone: 3.

National regulations:

Class share %

NK 100

VOC-CH 100,00 %

VOC-EU 722,0 g/l

Danish MAL Code 4-3

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge; however it does not definitively define the production characteristics and cannot be used as a justification for valid contracts.

Relative phrases:

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
EUH066* Repeated exposure may cause skin dryness or cracking.

Classification according to the Regulation (EC) no 1272/2008*:

PHYSICAL AND CHEMICAL PROPERTIES: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the components of the mixture (sum formula).

Explanation of abbreviations and acronyms:

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labelling concerning inhalation hazards, Denmark).

DNEL: Derived No-Effect Level (REACH)

PNEC: Derived No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable Gases - Category 1

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

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Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Changes in the 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, 8.1, 8.2, 9.1, 9.2, 11.1, 11.2, 13.1, 14.1, 14.3, 14.7, 15.1, 16.

General update.

Sheet number: 07-1N6L-0123-V3