

SECTION 1. MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification:

CONTROL BLACK COATING SPRAY

UFI: CXW0-H0JN-9004-R848 *

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

Use of the substance/preparation: paint

1.3 Data of the safety data sheet supplier

Przedsiębiorstwo RANAL Sp. z o.o.

Ul. Łódzka 3

42-240 Rudniki, PL

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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 EC Regulation 1272/2008 of 16 December 2008 on classification, labelling and packaging (CLP).



GHS02 flame

Aerosol 1 H222-H229

*

Extremely flammable aerosol. Pressurized container: May burst if heated.



GHS07

Eye Irrit. 2 H319

STOT SE 3 H336

Aquatic Chronic 3 H412

Causes eye irritation.

May cause drowsiness or dizziness.

Harmful to aquatic life with long-lasting effects.

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 GHS08

Signal word: **Danger**.

Contains*:

Acetone.

Butan-2-one.

Ethyl acetate

2-methoxy-1-methylethyl acetate.*

Hazard statements*:

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

H319 Causes eye irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long-lasting effects.

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 sources of heat/sparks/open flames/hot surfaces. 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 mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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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P312 Call a POISON CENTER/doctor if you feel unwell.
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.

Additional information:
EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Endocrine disrupting properties:

78-93-3 butan-2-one: List II

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Mixture of biocatalysts with liquid propellant.

Hazardous components	Classification	H phrases	% weight
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, EUH066	50 - <75
Butane (1,3 Butadiene <0.1%)	CAS: 106-97-8 EINECS: 203-448-7 Reg. no: 01-2119474691-32	Flam. Gas 1A, H220; Press. Gas (Comp.), H280.	10 - <25
Propane	CAS: 74-98-6 EINECS: 200-827-9 Reg. no: 01-2119486944-21	Flam. Gas 1A, H220; Press. Gas (Comp.), H280.	10 - <25
Xylene	CAS: 1330-20-7 EINECS: 215-535-7 Reg. no: 01-2119488216-32	Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5 - <10
Butan-2-one	CAS: 78-93-3 EINECS: 201-159-0 Reg. no: 01-2119457290-43	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5 - <10*
Ethyl acetate	CAS: 141-78-6 EINECS: 205-500-4 Reg. no: 01-2119475103-46	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5 - <10*
Isobutane	CAS: 75-28-5 EINECS: 200-857-2 Reg. no: 01-2119485395-27	Flam. Gas 1A, H220; Press. Gas (Comp.), H280.	1 - <2.5
Ethylbenzene	CAS: 100-41-4 EINECS: 202-849-4 Reg. no: 01-2119489370-35	Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	1 - <2.5*
2-methoxy-1-methylethyl acetate* Composed of 70657-70-4 2-methoxypropyl acetate (<0.3%)	CAS: 108-65-6 EINECS: 203-603-9 Reg. no: 01-2119475791-29	Flam. Liq. 3, H226; STOT SE 3, H336	1 - <2.5%
Trizinc bis(orthophosphate) Composed of 1314-13-2 zinc oxide (<3%)	CAS: 7779-90-0 EINECS: 231-944-3 Reg. no: 01-2119485044-40	Aquatic Acute 1*, H400*; Aquatic Chronic 1, H410	≥0.25 - <1
calcium bis(2-ethylhexanoate) *	CAS: 136-51-6 EINECS: 205-249-0	Repr. 1B, H360D; Acute Tox. 4, H312	≤0.1%
cobalt(II) 2-ethylhexanoate	CAS: 136-52-7 EINECS: 205-250-6 Reg. no: 01-2119524678-29	Repr. 2, H361; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	≤0.1

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Exposure routes: inhalation, ingestion, skin contact, eye contact.

Inhalation effects: Supply fresh air, in case of disturbances, consult a doctor.

Ingestion effects: Do not induce vomiting and call a doctor.

Contact with skin: In general the product does not irritate skin.

Contact with eyes: Rinse opened eye for several minutes under running water. If symptoms persist, consult 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

Useful extinguishing media: water mist, carbon dioxide, extinguishing powders, foam resistant to alcohol.
Unsuitable extinguishing media: full jet of water.

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

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 uses

No further relevant data available.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

Recommendations regarding technical measures: Provide good ventilation in the workplace.

8.1. Control parameters

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

67-64-1 Acetone

MPC MPIC: 1800 mg/m³ MPC: 600 mg/m³

106-97-8 butane (1,3 Butadiene <0.1%)

MPC MPIC: 3000 mg/m³ MPC: 1900 mg/m³

74-98-6 Propane

MPC MPIC: 1800 mg/m³

1330-20-7 xylene

MPC MPIC: 200 mg/m³ MPC: 100 mg/m³ skin

78-93-3 butan-2-one

MPC MPIC: 900 mg/m³ MPC: 450 mg/m³ skin

141-78-6 Ethyl acetate

MPC MPIC: 1468 mg/m³ MPC: 734 mg/m³

75-28-5 Isobutane

TLV MPC: 1900 mg/m³, 800 ppm Additional supplemented on the basis of the customer for sec. 3 of the Sheet

100-41-4 Ethylbenzene

MPC MPIC: 400 mg/m³ MPC: 200 mg/m³ skin

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108-65-6	2-methoxy-1-methylethyl acetate*		
MPC	MPIC: 520 mg/m ³	MPC: 260 mg/m ³	skin
136- 52- 7	cobalt(II) 2-ethylhexanoate		
MPC	MPC: 0.02 mg/m ³	in terms of Co	

DNEL values:

67-64-1 Acetone

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

1330-20-7 xylene*

Oral	DNEL Long term-systemic	12.5 mg/kg bw/day (Consumer)
Skin	DNEL Long term-systemic	125 mg/kg bw/day (Consumer)
		212 mg/kg bw/day (Worker)
Inhalation	DNEL Acute-systemic	260 mg/m ³ (Consumer)
		442 mg/m ³ (Worker)
	DNEL Acute-local	260 mg/m ³ (Consumer)
		442 mg/m ³ (Worker)
	DNEL Long term-systemic	65.3 mg/m ³ (Consumer)
		221 mg/m ³ (Worker)
	DNEL Long-term-local	65.3 mg/m ³ (Consumer)
		221 mg/m ³ (Worker)

78-93-3 butan-2-one

Oral	DNEL Long term-systemic	31 mg/kg bw/day (Consumer)
Skin	DNEL Long term-systemic	412 mg/kg bw/day (Consumer)
		1161 mg/kg bw/day (Worker)
Inhalation	DNEL Long term-systemic	106 mg/m ³ (Consumer)
		600 mg/m ³ (Worker)

141-78-6 Ethyl acetate

Oral	DNEL Long term-systemic	4.5 mg/kg bw/day (Consumer)
Skin	DNEL Long term-systemic	37 mg/kg bw/day (Consumer)
		63 mg/kg bw/day (Worker)
Inhalation	DNEL Acute-systemic	734 mg/m ³ (Consumer)
		1468 mg/m ³ (Worker)
	DNEL Acute-local	734 mg/m ³ (Consumer)
		1468 mg/m ³ (Worker)
	DNEL Long term-systemic	367 mg/m ³ (Consumer)
		34 mg/m ³ (Worker)
	DNEL Long-term-local	367 mg/m ³ (Consumer)
		734 mg/m ³ (Worker)

100-41-4 Ethylbenzene*

Oral	DNEL Long term-systemic	1.6 mg/kg bw/day (Consumer)
Skin	DNEL Long term-systemic	180 mg/kg bw/day (worker)
inhalation	DNEL Acute-local	15 mg/m ³ (Consumers)
		293 mg/m ³ (Worker)
	DNEL Long term-systemic	77 mg/m ³ (worker)

108-65-6 2-methoxy-1-methylethyl acetate*

Oral	DNEL Long term-systemic	36 mg/kg bw/day (Consumer)
Skin	DNEL Long term-systemic	320 mg/kg bw/day (Consumer)
		796 mg/kg bw/day (Worker)
inhalation	DNEL Acute-local	550 mg/m ³ (worker)
	DNEL Long term-systemic	33 mg/m ³ (Consumer)
		275 mg/m ³ (Worker)
	DNEL Long-term-local	33 mg/m ³ (Consumer)

PNEC values:

67-64-1 Acetone

PNEC Marine 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 Marine water sediment	3.04 mg/l (dry weight) (Undefined)

141-78-6

	Ethyl acetate
PNEC Fresh water	0.26 mg/l (Undefined)
PNEC Marine water	0.026 mg/l (Undefined)
PNEC Fresh water sediment	0.34 mg/l (dry weight) (Undefined)
PNEC Soil	0.22 mg/kg (Undefined)
PNEC Sewage treatment plant	650 mg/l (Undefined)
PNEC Marine water sediment	0.034 mg/l (dry weight) (Undefined)

108-65-6

	2-methoxy-1-methylethyl acetate*
PNEC Fresh water	0.635 mg/l (Undefined)
PNEC Marine water	0.0635 mg/l (Undefined)
PNEC Fresh water sediment	3.29 mg/l (dry weight) (Undefined)
PNEC Intermittent release	6.35 (Undefined)
PNEC Soil	0.29 mg/kg (Undefined)
PNEC Sewage treatment plant	100 mg/l (Undefined)

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PNEC Marine water sediment 0.329 mg/l (dry weight) (Undefined)

Components with permissible biological values:

Additional exposure limits with possible technological hazards:

100-41-4 Ethylbenzene

MPC MPIC: 400 mg/m³ MPC: 200 mg/m³ skin

108-88-3 Toluene

MPC MPIC: 200 mg/m³ MPC: 100 mg/m³ skin

Additional information:

The currently valid lists were used as basis.

8.2. Exposure control

Technical control measures:

No further data, see section 7.

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:

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.

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. We recommend the same for short-term works or protection against splash. We understand that gloves that offer this level of protection may not be in stock. In this case, a shorter breakthrough time is acceptable in the procedures governing maintenance and as long as the timely replacements are respected. Thickness of the gloves is not a good measure of their resistance to chemicals 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.

Eye or face 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*

Physical state:

Colour:	Aerosol
Odour:	Black.
Odour threshold:	Characteristic
Melting /freezing point:	Not specified.
Boiling point or initial	Not specified.
Boiling point and boiling range:	-44.5°C
Flammability of materials:	Not applicable.

Bottom and top explosion limit:

Bottom: 1.1 Vol %
Top: 13 Vol %

Flash point: -97°C
Ignition temperature: 365°C
pH: Mixture is non-polar/aprotic.

Viscosity:

Kinematic viscosity: Not specified.
Dynamic: Not specified.

Solubility:

Water: Not miscible or difficult to mix.
n-octanol/water partition coefficient (log value): Not specified.
Vapour pressure at 20 °C: 8300 hPa

Density or relative density:

Density at 20°C: 0.734 g/cm³
Relative density: Not specified.
Vapour density: Not specified.

9.2. Other information

Appearance:

Form: Aerosol

Important information on health and environment protection and safety:

Auto ignition point: The product is not self-igniting.
Explosive properties: The product is not explosive, but may form explosive mixtures with the air

Solvent content:

Organic solvents: 96.2 % *
Solids content: 10.6%.
Change of state:
Evaporation rate: Not applicable.

Information on the 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 gases in contact with water: 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:

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)

1330-20-7 xylene

Oral	LD50	4300 mg/kg/bw (Rat) (Acute Oral Toxicity)
Dermal	LD50	12126 mg/kg/bw (Rabbit)
Inhalation	LC50(4h)	6350 mg/l (Rat)

78-93-3 butan-2-one

Oral	LD50	> 2193 mg/kg (Rat)
Dermal	LD50	> 5000 mg/kg (Rabbit)
		5000 mg/kg (Rabbit)

141-78-6 Ethyl acetate

Oral	LD50	4934 mg/kg (Rabbit)
		5620 mg/kg (Rat)
Dermal	LD50	18000 mg/kg (Rat)
Inhalation	LC50(4h)	29.3 mg/l (Rat)

100-41-4 Ethylbenzene*

Oral	LD50	3500 mg/kg (Rat)
Dermal	LD50	15400 mg/kg (Rabbit)
Inhalation	LC50(4h)	17.6 mg/l (Rat)

108-65-6 2-methoxy-1-methylethyl acetate*

Oral	LD50	6190 mg/kg (Rat)
Dermal	LD50	> 2000 mg/kg (Rat)
		> 5000 mg/kg (Rabbit)
Inhalation	LCL0	> 23.5 mg/m ³ (rat)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Causes eye irritation.

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.

Carcinogenic effect: May cause cancer.

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:

78-93-3 butan-2-one: List II

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:

67-64-1 Acetone

EC50	8800 mg/l	(Daphnia magna)
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1330-20-7 xylene

LC50 (96h)	8.9-16.4 mg/l	(Pimephales promelas)
EC50 (48h)	3.2-9.5 mg/l	(Daphnia magna)

78-93-3 butan-2-one

LC50 (96h)	2993 mg/l	(Pimephales promelas)
EC50 (48h)	308 mg/l	(Daphnia magna)

141-78-6 Ethyl acetate

EC50 (48h)	0.164 mg/l	(Daphnia magna)
	3.3 mg/l	(Scenedesmus subspicatus)
EC50	7.4 mg/l	(Pseudomonas fluorescens)

100-41-4 Ethylbenzene*

LC50	>10 mg/l	(fi3)
EC50	>100 mg/l	(Daphnia magna)

108-65-6 **2-methoxy-1-methylethyl acetate***
EC50 (72h) (static) >1000 mg/l (Senastrum capricornatum) (Freshwater Alga and Cyanobacteria, Growth Inh.test)
LC50 (96h) (static) 134 mg/l (Oncorhynchus mykiss) (Fish, Acute Toxicity Test)

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*

See section 11 for information on endocrine disrupting properties.

12.7. Other hazardous effects*

See section 11 for information on endocrine disrupting properties.

Warning: Hazardous for fish.

Further ecological information: General information:

Water hazard class 2 (Self-assessment): hazardous to water.

Do not allow the product to reach ground water, surface water or sewage system.

Dangerous to drinking water if even small quantities leak into the ground.

Poisonous to aquatic life.

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.

HP14 Ecotoxic.

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. Proper shipping name

ADR, ADN UN1950 AEROSOLS

IMDG AEROSOLS

IATA AEROSOLS, flammable

14.3. Class/ Classification code

Class 2 5F gases

Label 2.1



ADN

Class ADN/R: 2 5F

IMDG, IATA

Class 2.1 gases

Label 2.1



14.4. Packaging group

None.

14.5. Environmental hazards

Marine pollutants: No.

14.6. Special precautions for users

Warning: gases

Hazard identification number (Kemler 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.

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.

Segregation Code:

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,

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: 150 t

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

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 are 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

78-93-3 butan-2-one 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

78-93-3 butan-2-one 3

National regulations:

Employment Limitation Tips:

Class share %*:

NK 75-< 100

VOC-CH 96,20 % *

VOC-EU 706,1 g/l *

Danish MAL Code 4-6*

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.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H360D* May be harmful to the unborn child
H360F * May cause harmful effect to reproduction.
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.
H412 Harmful to aquatic life with long-lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

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

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 constituents of the mixture (sum formula).

Explanation of abbreviations and acronyms:

ADR: Accord relatif au transport international 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 1A: Flammable Gases - Category 1A
Aerosol 1: Aerosols - Category 1
Press. Gas (Comp.): Gases under pressure - Compressed gas
Flam. Liq. 2: Flammable liquids - Category 2
Flam. Liq. 3: Flammable liquids - Category 3
Acute Tox. 3: Acute toxicity - 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
Skin Sens. 1: Skin sensitization - Category 1
Carc. 1B: Carcinogenicity - Category 1B
Repr. 2: Reproduction toxicity - Category 2
Repr. 2: Reproduction toxicity - Category 2
STOT SE 1: Specific target organ toxicity (single exposure) - Category 1
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2
Asp. Tox. 1: Aspiration hazard - Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute hazard to the aquatic environment - Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term hazard to the aquatic environment - Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term hazard to the aquatic environment - Category 3

The information contained in the Sheet applies only to the title product and cannot be transferred to similar products. The Sheet has been developed on the basis of the best of our knowledge and current information collected. The data contained in the Sheet should be treated only as tips concerning safe handling in transport, distribution, use and storage. The user of the product is obliged to comply with all applicable standards and regulations, and is also liable for misuse of the information contained in the Sheet.

Changes in the Sheet:

Update of sections:

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

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

1.1, 2.1, 3.2, 8.1, 9.1, 9.2, 11.1, 12.1, 12.6, 12.7, 13.1, 14.1, 14.7, 15.1, 16.

General update.

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