

SECTION 1: MIXTURE IDENTIFICATION AND MANUFACTURER/SUPPLIER IDENTIFICATION

1.1. Product identification

HIGH BUILD PRIMER SPRAY WHITE

UFI:

C9X0-J0A7-H003-DMFH

1.2. Relevant identified uses mixture and uses advised against

Use of the substance/mixture: Aerosol coating. *

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 material safety data sheet: ranal@ranal.pl.

1.4. Emergency telephone number

+48 34 329-45-03 (7:30 - 15:30).

SECTION 2: HAZARDS IDENTIFICATION

2.1. Mixture classification

	GHS02 flame		
Aerosol 1	H222-H229		Extremely flammable aerosol. Container under pressure: may explode if heated.
	GHS09 environment		
Aquatic Chronic 2	H411		Toxic to aquatic life with long-lasting effects.
	GHS07		
Eye Irrit. 2 STOT SE 3	H319 H336		Causes eye irritation. 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 GHS09 GHS07
Signal word: **Danger**.

Components indicating hazard for labelling:

Butan-2-one.
Acetone.
Butyl acetate.
2-methoxy-1-methylethyl acetate.*

Hazard statement:

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic 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.
210 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.

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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 eyes protection / face protection.
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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
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.
EUH208	Contains Fatty acids, C18-unsatd., trimers compds. with oleylamine. May cause an allergic reaction.

The product contains: Explosive precursors subject to notification. Provision, introduction, possession and use in accordance with Regulation (EU) 2019/1148, Article 9. *

Formation of explosive mixtures is possible in case of insufficient ventilation.

2.3. Other hazards

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.

Substance name	Identification	Classification 1272/2008:	% weight
Dimethyl ether	CAS: 115-10-6 EINECS: 204-065-8 Reg. no: 01-2119472128-37	Flam. Gas 1, H220; Press. Gas (Comp.), H280.	25-50%
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	10-< 25%
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	10-< 25%
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%
Trizinc bis(orthophosphate)	CAS: 7779-90-0 EINECS: 231-944-3 Reg. no: 01-2119463881-32	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-< 10%
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 EINECS: 203-603-9 Reg. no: 01-2119475791-29	Flam. Liq. 3, H226	1-<2.5% *
Fatty acids, C18-unsatd., trimers compds. with oleylamine*	CAS: 147900-93-4 EINECS: 604-612-4 Reg. no.: 01-2119971821-33	STOT RE 2, H373; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.1-<0.25%

Full hazard statements provided in section 16 of the Sheet.

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

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

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 media: carbon dioxide CO₂, extinguishing powders, water mist, 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 use (s)

No data.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION MEASURES

8.1. Control parameters

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

115-10-6	dimethyl ether	MPC: 1000 mg/m ³		
78-93-3	butan-2-one	MPIC: 900 mg/m ³	MPC: 450 mg/ m ³	skin
67-64-1	Acetone	MPIC: 1800 mg/m ³	MPC: 600 mg/m ³	
123-86-4	Butyl acetate	MPIC: 720 mg/m ³	MPC: 240 mg/m ³	
108-65-6	2-methoxy-1-methylethyl acetate	MPIC: 520 mg/m ³	MPC: 260 mg/ m ³	skin

DNEL values:

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)

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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)

123-86-4 Butyl acetate*

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

7779-90-0 Trizinc bis(orthophosphate)*

Oral	DNEL Long term-systemic	0.83 mg/kg bw/day	(Consumer)
Skin	DNEL Long term-systemic	83 mg/kg bw/day	(Consumer)
		83 mg/kg bw/day	(Worker)
Inhalation	DNEL Long term-systemic	2.5 mg/m ³	(Consumer)
		5 mg/m ³	(Worker)

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

Oral	DNEL Long term-systemic	1.67 mg/kg bw/day	(Consumer)
Skin	DNEL Long term-systemic	54.8 mg/kg bw/day	(Consumer)
		153.5 mg/kg bw/day	(Worker)
Inhalation	DNEL Long term-systemic	33 mg/m ³	(Consumer)
		275 mg/m ³	(Worker)

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	(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	(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)

7779-90-0 Trizinc bis(orthophosphate)*

PNEC Fresh water	0.0206 mg/l	(Undefined)
PNEC Sea water	0.0061 mg/l	(Undefined)
PNEC Fresh water sediment	117.8 mg/l (dry weight)	(Undefined)
PNEC Soil	35600 mg/kg	(Undefined)
PNEC Sewage treatment plant	0.1 mg/l	(Undefined)
PNEC Sea water sediment	56.5 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	(Undefined)
PNEC Sewage treatment plant	100 mg/l	(Undefined)
PNEC Sea water sediment	0.329 mg/l (dry weight)	(Undefined)

Additional information: The currently valid lists were used as basis.

8.2. Exposure control

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.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device; in case of intensive or prolonged exposure, use a respiratory protective device independent of the ambient air.

Filter A2/P2*

Hands protection:



Protective gloves *

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

Material of gloves:

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. The thickness of the glove is not a good measure of the glove's 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.

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)*

Eye or face protection:



Protective glasses (EN-166)

Tightly sealed protective glasses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties*

Form:	Aerosol
Colour:	White
Odour:	Characteristic
Odour threshold:	Not specified.
Melting /freezing point:	Not specified.
Boiling point or initial boiling point and boiling range:	-24.8°C (115-10-6 dimethyl ether)*
Flammability (solid, gas):	Not applicable.
Bottom and top explosion limit:	
Bottom:	1.5 Vol %
Top:	18.6 Vol %
Flash point:	-42°C *
Auto ignition point:	235°C *
pH-value:	Not specified.
Viscosity:	
Dynamic:	Not specified.
Kinetic:	Not specified.
Solubility in/miscibility with Water:	Not miscible or difficult to mix.
n-octanol/water partition coefficient (log value):	Not specified.
Vapour pressure at 20 °C:	5200 hPa
Density at 20°C:	0.888 g/cm ³ *
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.

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Organic solvents content : 75.1 % *
Solids content: 38.8 % *
Evaporation rate: Not applicable.

Information with regard to physical hazard classes*:

Explosives: none
Flammable gases: none
Aerosols: Extremely flammable aerosol. Pressurised container: May burst if heated.
Oxidising 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
Oxidising 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

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:

78-93-3 butan-2-one

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

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)

7779-90-0 Trizinc bis(orthophosphate)

Oral	LD50	5000 mg/kg (Rat)
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108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	6190 mg/kg	(Rat)*
Dermal	LD50	> 2000 mg/kg	(Rat)
		> 2000 mg/kg	(rabbit)
Inhalation	LC50/ 4h	>20 mg/l	(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.

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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:

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

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:

78-93-3 butan-2-one

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

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	(Daphnia magna)

7779-90-0 Trizinc bis(orthophosphate)*

LC50	0.78 mg/l	(Pimephales promelas)
EC50	0.147 mg/l	(Pseudokirchneriella subcapitata)
NOEC	0.044 mg/l	(fish)
NOEC (7 days)	0.019 mg/l	(Pseudokirchneriella subcapitata)
EC50 (72h)	0.136 mg/l	(algae)
LC50 (96h)	0.169 mg/l	(Onc)
EC50 (48h)	2.34 mg/l	(Daphnia magna)
ErC(50) (72h)	0.14 mg/l	(Desmodesmus subspicatus)

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

EC50 (72h) (static)	>1000 mg/l	(Selenastrum 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*

Ecotoxic effects:

Warning: Poisonous to fish.

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.

Poisonous to fish and plankton in water reservoirs.

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
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
UN 1950

14.2. UN proper shipping name

ADR, ADN UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS*
IMDG AEROSOLS, MARINE POLLUTANT *
IATA AEROSOLS, flammable

14.3. Transport hazard class (-es)

ADR:



Class: 2 5F Gases
Label: 2.1

ADN

Class ADN/R: 2 5F

IMDG:



Class 2.1
Label 2.1

IATA:



Class 2.1
Label 2.1

14.4. Packaging group

ADR, IMDG, IATA
None.

14.5. Environmental hazards

Marine pollutants: Yes
Symbol (fish and tree)

Special labelling (ADR):
Symbol (fish and tree)

14.6. Special precautions for users

Warning: gases

Kemler's code:

EMS Number:

Stowage Code

-

F-D,S-U

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 A

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 ENVIRONMENTALLY HAZARDOUS

SECTION 15: REGULATORY INFORMATION

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

Directive 2012/18/EU:

Named dangerous substances - ANNEX I:

None of the components are listed.

Seveso category:

P3a FLAMMABLE AEROSOLS
E2 Hazardous to the aquatic environment

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 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:

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

78-93-3 butan-2-one 3
67-64-1 Acetone 3

National regulations:

Class share %: NK 75-< 100
VOC-CH 75.11 % *
VOC-EU 667.0 g/l *
Danish MAL Code 3-1*

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.
H317 May cause an allergic skin reaction.
H319 Causes eye irritation.
H336 May cause drowsiness or dizziness.
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.
H411 Toxic to aquatic life with long-lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

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 (Liq): Gases under pressure - Liquefied gas
Flam. Liq. 2: Flammable liquids - Category 2
Flam. Liq. 3: Flammable liquids - Category 3
Acute Tox. 4: Acute toxicity - Category 4
Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
Skin Sens. 1: Skin sensitization - Category 1
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2
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 2: Hazardous to the aquatic environment - long-term hazard to the aquatic environment - Category 2

Changes in the Sheet:

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:

1.1, 2.2, 2.3, 3.2, 5.3, 8.1, 8.2, 9.1, 9.2, 11.1, 11.2, 12.1, 12.2, 12.6, 12.7, 14.1, 14.2, 14.7, 15.1, 16.

General update.

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