

# SAFETY DATA SHEET Aerolite UP-4145

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Aerolite UP-4145

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

Use of the substance/ : Industrial/ Professional Use: Adhesive. Woodworking industry.

mixture

1.3 Details of the supplier of the safety data sheet

Supplier : Dynea AS

P.O.Box 160, N-2001 Lillestrøm

Norway

Tel. +47 63897100 Fax. +47 63897610

e-mail address of person

responsible for this SDS

: sds@dynea.com

## 1.4 Emergency telephone number

# National advisory body/Poison Center

**Telephone number** : Not available.

<u>Supplier</u>

**Telephone number** : +47 63897100

Hours of operation : 24 hours

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Product definition : Mixture

# Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Eye Irrit. 2, H319

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

# 2.2 Label elements

Hazard pictograms :



Signal word : Warning

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# **SECTION 2: Hazards identification**

**Hazard statements** 

: H319 - Causes serious eye irritation.

**Precautionary statements** 

: P280 - Wear eye or face protection.

P264 - Wash hands thoroughly after handling.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental label

elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and : Not applicable.

articles

## Special packaging requirements

Not applicable.

#### 2.3 Other hazards

Other hazards which do not result in classification

: May form explosible dust-air mixture if dispersed. Air contaminants may be formed during use of the product. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Combustible.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
Kaolin	EC: 310-194-1 CAS: 1332-58-7	≥10 - ≤25	Not classified.	[2]
aluminium sulphate	REACH #: 01-2119615970-39 EC: 233-135-0 CAS: 10043-01-3	<3	Eye Dam. 1, H318	[1] [2]
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≤0,3	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 (central nervous system (CNS), optic nerve)	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### <u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

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# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation**: Move exposed person to fresh air. Get medical attention if symptoms occur. In case

of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

**Ingestion**: Wash out mouth with water. If material has been swallowed and the exposed person

is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health

effects persist or are severe.

General : Move the victim to a safe area as soon as possible. If unconscious, place in recovery

position and seek medical advice. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Allow the victim to rest in a well-ventilated area.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training.

# 4.2 Most important symptoms and effects, both acute and delayed

# Potential acute health effects

No known significant effects or critical hazards.

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following

exposure.

**Ingestion**: May be irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

# 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing

: Use alcohol-resistant foam or water spray (mist).

Unsuitable extinguishing

media

media

: Avoid high pressure media which could cause the formation of a potentially explosible

dust-air mixture.

## 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Take precautionary measures against static discharges. May form explosible dust-air mixture if dispersed.

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# **SECTION 5: Firefighting measures**

# Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

#### 5.3 Advice for firefighters

# Special precautions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

# Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

## For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# 6.3 Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container.

#### Large spill

: Approach release from upwind. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Avoid creating dusty conditions and prevent wind dispersal. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container.

# 6.4 Reference to other sections

See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.
 See Section 13 for additional waste treatment information.

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# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep container dry.

# 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

# 8.1 Control parameters

## Occupational exposure limits

Product/ingredient name	Exposure limit values
Kaolin	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 2 mg/m³ 8 hours. Form: Respirable dust
aluminium sulphate	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 2 mg/m³ 8 hours.
methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.  STEL: 333 mg/m³ 15 minutes.  STEL: 250 ppm 15 minutes.  TWA: 266 mg/m³ 8 hours.  TWA: 200 ppm 8 hours.
formaldehyde	[Air contaminant] EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2,5 mg/m³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours.

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# SECTION 8: Exposure controls/personal protection

TWA: 2,5 mg/m3 8 hours.

# procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
aluminium sulphate	DNEL	Long term Inhalation	20,2 mg/m³	Workers	Systemic
	DNEL	Long term Oral	3,4 mg/m <sup>3</sup>	Consumers	Systemic
methanol	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	260 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	260 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Dermal	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	50 mg/m³	Consumers	Systemic
	DNEL	Short term Oral	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	50 mg/m³	Consumers	Local
	DNEL	Long term Dermal	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	50 mg/m³	Consumers	Systemic
	DNEL	Long term Oral	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	50 mg/m³	Consumers	Local

#### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
	_	Fresh water Marine	0,3 μg/l 0,03 μg/l	-
	PNEC	Sewage Treatment Plant	20 mg/l	-
	PNEC PNEC PNEC	Fresh water Marine Intermittent release Fresh water sediment Soil	20,8 mg/l 2,08 mg/l 1540 mg/l 77 mg/kg dwt 100 mg/kg wwt	Assessment Factors Assessment Factors Assessment Factors Equilibrium Partitioning Equilibrium Partitioning

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SECTION 8: Exposure con	trols/p	personal protection	n				
		Marine water sediment Sewage Treatment Plant	7,7 mg/kg dwt 100 mg/l	Equilibrium Partitioning Assessment Factors			

#### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Individual protection measures**

**Hygiene measures**: Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

**Eye/face protection**: Use eye protection according to EN 166, designed to protect against powders and

dusts. Recommended: chemical splash goggles.

**Hand protection**: Wear suitable gloves tested to EN374. It should be noted that the time to

breakthrough for any glove material may be different for different glove

manufacturers.

Recommended: Protective Index 6 / Breakthrough time >480 minutes: neoprene

rubber 0.7 mm thickness or nitrile rubber 0.4 mm thickness

Other skin protection : Wear work clothing with long sleeves. Handling of product where, due to high

pressure, speed or force, large quantities of dust are generated and dispersed Wear

dust-resistant protective clothing.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

**Respiratory protection**: Respirator selection must be based on known or anticipated exposure levels, the

hazards of the product and the safe working limits of the selected respirator. No

personal respiratory protective equipment normally required.

Long Term Exposure / high concentrations : disposable particulate mask ;

particulate filter (P3)

Short term exposure / Low exposure : disposable particulate mask ; particulate

filter (P2)

**Environmental exposure** 

controls

: Emissions from ventilation or work process equipment should be checked to ensure

they comply with the requirements of environmental protection legislation.

# **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state: Solid. [Powder.]Color: Grayish-white. [Light]Odor: Formaldehyde. [Slight]

Odor threshold : Not available.

**pH** : 3 to 4,5 [Conc. (% w/w): 67%]

Melting point/freezing point : Not available.

Initial boiling point and : Not available.

boiling range

Flash point : Not available.

Evaporation rate : Not available.

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# SECTION 9: Physical and chemical properties

Flammability (solid, gas) : Not available. Upper/lower flammability or

explosive limits

Vapor density

**Bulk density** 

Relative density

: Not available.

Vapor pressure

: Not available. : Not available. : Not available. : 600 kg/m<sup>3</sup>

Solubility : Dispersible in water

Partition coefficient: n-octanol/: Not available.

**Auto-ignition temperature** Not available. **Decomposition temperature** : Not available. Viscosity : Not applicable.

**Explosive properties** : Fine dust clouds may form explosive mixtures with air.

Oxidizing properties : Not available.

9.2 Other information

**VOC content (Without volume** : 0,27 % (w/w) exclusion) 2,7 g/l

# **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges.

Prevent dust accumulation.

10.5 Incompatible materials Reactive or incompatible with the following materials:

oxidizing materials

10.6 Hazardous

decomposition products

: Formaldehyde may be released during processing.

# SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

#### **Potential Adverse effects**

No known significant effects or critical hazards.

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Adverse symptoms may include the following:

respiratory tract irritation

May be irritating to mouth, throat and stomach.

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# **SECTION 11: Toxicological information**

Causes serious eye irritation.

Adverse symptoms may include the following:

pain or irritation watering redness

# **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
aluminium sulphate	LC50 Inhalation Vapor	Rat - Male, Female	5 mg/l	4 hours
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-
methanol	LC50 Inhalation Vapor	Rat - Male, Female	128,2 mg/l	4 hours
	LD50 Dermal	Rabbit	17100 mg/kg	-

**aluminium sulphate**: Based on available data, the classification criteria are not met. **methanol**: Toxic by inhalation, in contact with skin and if swallowed.

# Acute toxicity estimates

Product	ATE value
Oral	48928 mg/kg
Dermal	146784,1 mg/kg
Inhalation (vapors)	1467,8 mg/l

Product Conclusion/ Summary : Based on available data, the classification criteria are not met.

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
aluminium sulphate	Skin - Erythema/Eschar	Rabbit	0	4 hours 0. 5ml	72 days
	Skin - Edema	Rabbit	0	4 hours 0. 5ml	72 days
	Eyes - Cornea opacity	Rabbit	0	0.1ml	72 hours
	Eyes - Iris lesion	Rabbit	1	0.1ml	72 hours
	Eyes - Redness of the conjunctivae	Rabbit	1,56	0.1ml	72 hours
	Eyes - Edema of the conjunctivae	Rabbit	1,44	0.1ml	72 hours

Skin

: aluminium sulphate: Based on available data, the classification criteria are not met. methanol: Based on available data, the classification criteria are not met.

Eyes

: aluminium sulphate: Irritating to eyes.

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

Product Conclusion/ Summary : Causes serious eye irritation.

## **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
aluminium sulphate methanol	skin Respiratory skin	Guinea pig	Not sensitizing Not sensitizing Not sensitizing

Skin : aluminium sulphate: Not sensitizing

methanol: Not sensitizing

**Respiratory** : methanol: Not sensitizing

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# **SECTION 11: Toxicological information**

Product Conclusion/ Summary : Based on available data, the classification criteria are not met.

# **Chronic toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
aluminium sulphate	Sub-acute NOAEL Oral	Rat - Male	18 mg/kg Al3+	28 days; 7 days per week
	Sub-acute LOAEL Oral	Rat - Male	90 mg/kg Al3+	28 days; 7 days per week
	Sub-chronic LOAEC	Rat - Male,	15,3 mg/m <sup>3</sup>	90 days; 0,018
	Inhalation Vapor	Female		hours per day
methanol	Chronic NOAEL Oral	Rat - Male, Female	466 to 529 mg/ kg Repeated dose	104 weeks
	Chronic NOEC Inhalation Vapor	Rat - Male, Female	0,13 mg/l	12 months
	Chronic NOAEC Inhalation Vapor	Rat - Male, Female	1,3 mg/l Continuous	108 days
	Chronic NOAEC Inhalation Vapor	Rat	1,33 mg/l Continuous	17 days; 22,7 hours per day

## **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
aluminium sulphate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: + & -	Negative
	OECD 487 In vitro Micronucleus Test	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: + & -	Negative
	OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: + & -	Negative

**aluminium sulphate**: Based on available data, the classification criteria are not met. **methanol**: Based on available data, the classification criteria are not met.

Product Conclusion/ Summary : Based on available data, the classification criteria are not met.

# Carcinogenicity

Product Conclusion/ Summary methanol: Based on available data, the classification criteria are not met.

: Formaldehyde is classified as a category 1B carcinogen by EU (Suspected of causing cancer in humans). The classification is mainly based on carcinogenic effects demonstrated in animal experiments, but also on experience from occupational use indicating, but not proving, increased risk of cancer in humans. The actual risk is a rare type of cancer in the nasopharyngeal area (upper part of the throat, behind the nose).

Animal experiments have demonstrated that the cancer risk has a strong link to high and repeated doses of formaldehyde, with an effect threshold at 2 ppm. This is the basis for the derived no effect level (DNEL) for occupational use of 0,3 ppm. Exposure below this level gives limited or no risk of adverse effects.

## Reproductive toxicity

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

Product Conclusion/ Summary : Based on available data, the classification criteria are not met.

#### **Teratogenicity**

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# **SECTION 11: Toxicological information**

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

Product Conclusion/

**Summary** 

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

# Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
methanol	Category 1		central nervous system (CNS) and optic nerve

## Specific target organ toxicity (repeated exposure)

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

**Aspiration hazard** 

**Product Conclusion/** 

**Summary** 

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

Interactive effects : No specific data.

Other information : No specific data.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
aluminium sulphate	EC50 14 mg/l Fresh water	Algae - Pseudokirchnerella	72 hours
		ubcapitata	Static
	EC50 >1000 mg/l Fresh water	Micro-organism	3 hours
			Static
	Acute EC50 38 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
			Static
	Acute EC50 >200 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
			Static
	Acute EC50 98 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
			Semi-
			static
	Acute LC50 186 mg/l Fresh water	Fish - Danio rerio	96 hours
			Static
	Acute LC50 >100 mg/l Fresh water	Fish - Danio rerio	96 hours
			Static
	Acute NOEC >1000 mg/l Fresh water	Fish - Danio rerio	96 hours
			Semi-
			static
	Chronic LC50 0,019 mg/l Al3+ Fresh	Fish - Salmo trutta	28 days
	water		
	Chronic NOEC 3,8 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	8 days
		·	Semi-
			static
	Chronic NOEC 0,013 mg/l Al3+ Fresh	Fish - Salvelinus fontinalis	60 days
	water		Semi-
			static
nethanol	EC50 22000 mg/l Fresh water	Algae - Selenastrum	96 hours
	ŭ	capricornutum	Static
	IC50 8800 mg/l Fresh water	Micro-organism - Nitrosomonas	24 hours
		sp.	Static
	Acute EC50 >10000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
			Static
	Acute LC50 15400 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
		·	Flow
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**Conclusion/Summary**: methanol: No known significant effects or critical hazards.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
methanol	-	83 to 91 % - Readily - 3 days	-	Fresh water Sediment
	-	71 to 83 % - Readily - 5 days	BOD/ThOD	Sewage
	-	69 to 97 % - 5 days	O <sub>2</sub> Consumption	Marine water
	-	53,4 % - 5 days	-	-
	-	46,3 % - 5 days	-	-

**Conclusion/Summary**: methanol: Readily biodegradable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
methanol	-	50%; 17.2 day(s)	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
aluminium sulphate	-	362	low
methanol	-0,77	<10	low

12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** 

: Not available.

# 12.5 Results of PBT and vPvB assessment

PBT : Not applicable. vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

# **Product**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

# **Packaging**

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# **SECTION 13: Disposal considerations**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

#### Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air

Not listed

Industrial emissions (integrated pollution prevention and control) - Water

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# **SECTION 15: Regulatory information**

Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

# **National regulations**

## **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are listed or exempted.

Viet Nam : Not determined.

15.2 Chemical Safety

**Assessment** 

: This product contains substances for which Chemical Safety Assessments are still

required.

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# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Irrit. 2, H319	Calculation method

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H370	Causes damage to organs.

# Full text of classifications [CLP/GHS]

Acute Tox. 3, H301	ACUTE TOXICITY (oral) - Category 3
Acute Tox. 3, H311	ACUTE TOXICITY (dermal) - Category 3
Acute Tox. 3, H331	ACUTE TOXICITY (inhalation) - Category 3
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
STOT SE 1, H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category
	1

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Previous product name : Not available.

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