

SAFETY DATA SHEET Aerolite UP-4145 One Shot Powdered Adhesive

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

1.1 Product identifier

Product name : Aerolite UP-4145 One Shot Powdered Adhesive

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

Use of the substance/

mixture

: Industrial/Professional Use: Adhesive. Woodworking industry.

1.3 Details of the supplier of the safety data sheet

Supplier : Adkwik Ltd

Unit F, Dales Manor Business Park

Grove Road Sawston CB22 3TJ

technical@adkwik.co.uk

01223 412373

1.4 Emergency telephone number

Telephone number : 01223 412373 (not 24hrs)

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 R phrases or 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

SECTION 2: Hazards identification

Hazard statements

: F319 - 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.

Hazardous ingredients

Supplemental label

: aluminium sulphate

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

: Fine dust clouds may form explosive mixtures with air. Combustible. Handling and/ or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Air contaminants may be formed during use of the product.

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	≥1 - <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	≥0.1 - <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) and optic nerve) See Section 16 for the full text of the H statements declared above.	[1] [2]

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.

Type

- [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

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

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

evelids. 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 : Fush 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

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: 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

media

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

Unsuitable extinguishing

media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Take precautionary measures against static discharges. Fine dust clouds may form explosive mixtures with air.

SECTION 5: Firefighting measures

Hazardous combustion products

: Decomposition products may include the following materials:

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 spilt 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 specialised 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 spilt 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 material 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 the release from upwind. Move containers from spill area. Use sparkproof 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.

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

SECTION 7: Handling and storage

Protective measures

: See Section 8 for information on appropriate personal protective equipment. 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 earthing 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 unlabelled 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.

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. TWA: 2.5 mg/m³ 8 hours.

SECTION 8: Exposure controls/personal protection

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
aruminium sulphate	DNEL	Long term Inhalation	20.2 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	3.4 mg/m³	Consumers	Systemic
methanol	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	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 ³	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
afuminium sulphate	PNEC PNEC PNEC	Fresh water Marine Sewage Treatment	0.3 μg/l 0.03 μg/l 20 mg/l	- - -
methanol	PNEC PNEC PNEC PNEC PNEC PNEC	Plant Fresh water Marine Intermittent release Sediment Soil Sewage Treatment Plant	154 mg/l 15.4 mg/l 1540 mg/l 570.4 mg/kg dwt 23.5 mg/kg wwt 100 mg/l	Assessment Factors Assessment Factors Assessment Factors Equilibrium Partitioning Equilibrium Partitioning Assessment Factors

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour 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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

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

> 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.

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

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.

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.] Colour : Greyish-white. [Light] Odour : Formaldehyde. [Slight]

: Not available. **Odour threshold**

: 3 to 4.5 [Conc. (% w/w): 67%]

Melting point/freezing point Initial boiling point and

boiling range

: Not available. : Not available.

Flash point

: Not available. : Not available. **Evaporation rate** Flammability (solid, gas) : Not available. **Burning time** : Not available. : Not available. **Burning rate**

Upper/lower flammability or

explosive limits

: Not available.

SECTION 9: Physical and chemical properties

: Not available. Vapour pressure Vapour density : Not available. Relative density : Not available. **Bulk density** : 600 kg/m³

Solubility : Dispersible in water

Partition coefficient: n-octanol/ : Not available.

water

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

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

Oxidising 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

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.

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

Adverse symptoms may include the following:

respiratory tract irritation

coughing

: Fritating to mouth, throat and stomach. Ingestion

: Causes serious eye irritation. Eye contact

Adverse symptoms may include the following:

pain or irritation

watering redness

SECTION 11: Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
afuminium sulphate	LC50 Inhalation Vapour	Rat - Male, Female	5 mg/l	4 hours
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-
methanol	LC50 Inhalation Vapour	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
Ø ral	48928 mg/kg
Dermal	146784.1 mg/kg
Inhalation (vapours)	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
afuminium sulphate	Skin - Erythema/Eschar	Rabbit	0	4 hours 0. 5ml	72 days
	Skin - Oedema	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 - Oedema 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.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
aruminium 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

Product Conclusion/

Summary

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

Chronic toxicity

SECTION 11: Toxicological information

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 Inhalation Vapour	Rat - Male, Female	15.3 mg/m³	90 days; 0.018 hours per day
methanol	Chronic NOAEL Oral	Rat - Male, Female	466 to 529 mg/ kg Repeated dose	104 weeks
	Chronic NOEC Inhalation Vapour	Rat - Male, Female	0.13 mg/l	12 months
	Chronic NOAEC Inhalation Vapour	Rat - Male, Female	1.3 mg/l Continuous	108 days
	Chronic NOAEC Inhalation Vapour	Rat	1.33 mg/l Continuous	17 days; 22.7 hours per day

Mutagenicity

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

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

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

SECTION 11: Toxicological information

Product Conclusion/

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

Summary

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
methanol	Category 1	All	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.

: No specific data. Other information

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 water	Fish - Salmo trutta	28 days
	Chronic NOEC 3.8 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	8 days Semi- static
	Chronic NOEC 0.013 mg/l Al3+ Fresh water	Fish - Salvelinus fontinalis	60 days Semi- static
methanol	EC50 22000 mg/l Fresh water	Algae - Selenastrum capricornutum	96 hours Static
	IC50 8800 mg/l Fresh water	Micro-organism - Nitrosomonas sp.	24 hours 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 through

SECTION 12: Ecological information

Chronic NOEC 7900 mg/l Fresh water	Fish - Oryzias latipes	200
_		hours
		Static

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 ₂ 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	LogPow	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 minimised 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 91/689/EEC.

Cured resin is regarded as non-hazardous waste.

European waste catalogue (EWC)

SECTION 13: Disposal considerations

Waste code	Waste designation	
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised 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 spilt 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	-	-	-	-

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 73/78 and the IBC : Not available.

Code

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 authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

SECTION 15: Regulatory information

Annex XVII - Restrictions

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

Other EU regulations

Europe inventory : All components are listed or exempted.

: Not applicable.

Black List Chemicals : Not listed
Priority List Chemicals : Not listed
Integrated pollution : Not listed

prevention and control list

(IPPC) - Air

Integrated pollution : Not listed

prevention and control list

(IPPC) - Water

Seveso II Directive

This product is not controlled under the Seveso II Directive.

National 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 Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety

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

Assessment required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and : ATE = Acute Toxicity Estimate

acronyms CLP = Classification, Labelling and Packaging Regulation [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

SECTION 16: Other information

Full text of abbreviated H statements

H225 Highly flammable liquid and vapour. Toxic if swallowed. H301 (oral) H311 (dermal) Toxic in contact with skin. Causes serious eye damage. H318 H319 Causes serious eye irritation. H331 (inhalation) Toxic if inhaled.

H370 (central nervous Causes damage to organs. (central nervous system

system (CNS) and optic (CNS) and optic nerve) nerve)

Full text of classifications [CLP/GHS]

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

(central nervous system EXPOSURE) (central nervous system (CNS) and optic

(CNS) and optic nerve) nerve) - Category 1

Date of issue/ Date of

revision

Date of previous issue : 21.05.2015. Previous product name : Not available.

: 26.11.2015.

Version