

SAFETY DATA SHEET

1. Identification

Product identifier	ALDEX® Liquid		
Other means of identification			
Synonyms	<u>AMSGL1</u> , <u>AMSGL1-12</u> , <u>AMSGL15</u> , <u>AMSGL825</u>		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/Distributor information			
Manufacturer			
Company name	WCM, Inc		
Address	6054 Corte Del Cedro Carlsbad, CA 92011 United States		
Telephone	General Assistance	760-930-9101	
E-mail	info@wastewise.com		
Contact person	Customer Service		
Emergency phone number	CHEMTREC	800-424-9300	

2. Hazard(s) identification

Physical hazards	Not classified.		
Health hazards	Not classified.		
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3	
	Hazardous to the aquatic environment, long-term hazard	Category 4	
OSHA defined hazards	Not classified.		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.		
Precautionary statement			
Prevention	Avoid release to the environment.		
Response	Wash hands after handling.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	None.		

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
UREA		57-13-6	30 - < 40
Other components below reportable levels			70 - < 80

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
UREA (CAS 57-13-6)	TWA	10 mg/m ³	Total particulate.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Appearance**

Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Slight amine
Odor threshold	Not available.
pH	4 - 5
Melting point/freezing point	270.86 °F (132.7 °C) estimated
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.00001 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.32 g/cm ³ estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	66.16 % estimated
Specific gravity	1.32 estimated
VOC (Weight %)	15 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
UREA (CAS 57-13-6)		
Acute		
Oral		
LD50	Rat	8471 mg/kg
	Sheep	28500 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Not listed.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
Not regulated.	
US. National Toxicology Program (NTP) Report on Carcinogens	
Not listed.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life. May cause long lasting harmful effects to aquatic life. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
UREA (CAS 57-13-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 24 hours
Fish	LC50	Fish	9100 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

UREA -2.11

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or as reproductive toxins..

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCs)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 10-15-2018
Revision date 10-23-2018
Version # 02

Material name: ALDEX® Liquid

2405 Version #: 02 Revision date: 10-23-2018 Issue date: 10-15-2018

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Isolyser®/SMS®

Safety Data Sheet

SECTION 1 – IDENTIFICATION

Date of Revision: June 1, 2015

Emergency Contact Telephone: CHEMTREC (800) 424-9300

Product Name: SRS 800, SMS 2400, SMS 4000, SMS 10000

Synonym: None

CAS Number: None Assigned

Chemical Family: Solution: Water Based Monomer Solution, Catalysts: Inorganic Salts and Oxide

Manufacturer:

WCM, Inc.
6054 Corte Del Cedro
Carlsbad, CA 92011
(760) 930-9101
info@wastewise.com

EMERGENCY CONTACT INFORMATION:

CHEMTREC: (800) 424-9300

SECTION 2 – HAZARD(S) IDENTIFICATION



Warning:

Harmful if inhaled
Harmful if ingested
Harmful if absorbed through the skin
May cause eye irritation
May cause skin irritation
May cause respiratory irritation
Catalysts are also corrosive.

Precautionary Statement Prevention:

Wear protective gloves/ eye protection/ face protection
Avoid breathing fumes

If contact occurs, flush with water for fifteen minutes. If ingested, contact a physician for medical attention and call CHEMTREC at 1-800-424-9300.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component:	CAS Number:	(See Section 8 for exposure limits)
N-Methylolacrylamide	924-42-5	
Benzotriazole	95-14-7	
Sodium Nitrite	7632-00-0	
APS (Catalyst A)	7727-54-0100	
ZFS (Catalyst B)	24887-06-7	

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Flush with water for 15 minutes. Do not use chemical agents to neutralize. Seek medical aid.

SKIN CONTACT: Flush with water for 15 minutes. Remove and clean contaminated clothing. Seek medical aid.

INHALATION: Remove from exposure. Administer artificial respiration and oxygen if necessary. Seek medical aid.

INGESTION: Call CHEMTREC (800) 424-9300 and seek medical aid.

SECTION 5- FIRE-FIGHTING MEASURES

FLASH POINT & METHOD: Not Applicable

AUTO IGNITION TEMP: Not Established

FLAMMABLE LIMITS (o/c VOLUME/AIR) LOWER: No Data

UPPER: No Data

EXTINGUISHING MEDIA: Not combustible under expected conditions of use. Water spray if fire occurs in area.

FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus to fight large fires.

FIRE/EXPLOSION HAZARDS: Emits toxic fumes under fire conditions. Contact with powdered metals causes fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: *Solution:* absorb with paper, vermiculite, or floor absorbent. *Catalyst:* Sweep up using broom and dust pan.

WASTE DISPOSAL: All waste disposal must be done in accordance with applicable regulations.

SECTION 7- HANDLING AND STORAGE

HANDLING: Avoid contact with liquid, powders, and vapors. Use with adequate ventilation. Handle in accordance with good industrial hygiene, appropriate personal protective equipment and following safe work practices.

STORAGE: Keep container and catalyst packs closed and away from other chemicals, heat, spark or open flame. Do not freeze. Catalyst is moisture sensitive and may generate heat when wet.

OTHER: Do not take internally. Do not wear contacts without eye protection.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines: (Product) *Solution* - None Established. *Catalyst* - PEL is 5 mg/m³ for total dust.

Ingredients CAS NO. Percent Exposure:

Solution:

N-Methylolacrylamide 924-42-5 < 60 l mg/m³ [manufacturer's]

Benzotriazole 95-14-7 None Established

Sodium Nitrite 7632-00-0 None Established

Catalyst:

APS, Ammonium persulfate (A) 7727-54-0100) ACGIH 0.1 mg/m³ (TWA) (per manufacturer)

ZFS, Zinc formaldehyde sulfoxylate (B) 24887-06-7 Total dust OSHA PEL, ACGIH TLV (per manufacturer)

*APS and ZFS contain sodium sulfate and Zinc (as component of ZFS) which may be subject to the reporting requirements of Section 313, Title 111 of SARA. Sodium nitrite may be subject to the reporting requirements of Section 313, Title III of SARA.

Engineering Controls: Use in a well-ventilated area

Respiratory Protection: NIOSH/OSHA air purifying or air-line respirators when dust levels exceed PEL.

Eye Protection: Dust-tight and chemical resistant goggles.
Hand Protection: Chemical resistant gloves.
Skin Protection: Wear appropriate protective clothing to minimize skin exposure.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Solution: APS ZFS
Boiling Point: NA
Melting Point: NA
Vapor Pressure: NA
Vapor Density: NA
Solubility in Water: 100%
Specific Gravity: 1.07 - 1.051 @ 25° C
Viscosity (30 °C): NA
% Volatile by vol.: NA
pH: 4.9 - 6.5
Evaporation Rate: Equivalent to Water NA
Appearance/Odor: Clear liquid with mild odor. White powder/stale odor, White powder/strong odor

SECTION 10 – STABILITY AND REACTIVITY

Condition Contributing to Instability: Extreme temperatures, exposure to incompatible materials.
Incompatibility: Oxidizing and reducing agents, strong acids or bases, peroxides, chloroformates, bisulfites, ammonia, cyanides, amines, copper, aluminum, and brass. Contact of finely powdered metals with catalyst may cause fire.
Hazardous Reactions/ Decomposition Products: Carbon monoxide, ammonia oxides of nitrogen and sulfur.
Condition Contributing to Hazardous Polymerization: Excessive heat.

SECTION 11 – TOXICOLOGICAL INFORMATION

EYE AND SKIN: Solution. Direct contact may cause moderate irritation. Material may penetrate skin and cause nausea with prolonged or repeated contact. Catalyst: APS may permanently damage the eye causing blindness, be severely irritating to skin causing potentially permanent damage, and penetrate intact skin causing internal organ damage. ZFS may also cause irritation.

INHALATION: Solution: May produce tissue irritation, headaches, drowsiness, or unconsciousness. Catalyst: ZFS may cause transient irritation of the airways. If ZFS is heated and fumes generated (not consistent with anticipated product use), fever and reversible symptoms resembling an upper respiratory tract infection could occur. APS inhalation may be fatal due to severe respiratory tract inflammation.

INGESTION: May cause gastric irritation. One or more ingredients may be toxic if swallowed
Catalyst: ZFS may also produce mouth and throat irritation, nausea, vomiting and systemic illness. Ingestion of APS may be life threatening due to tissue corrosion.

SECTION 12 – ECOLOGICAL INFORMATION (non-mandatory)

SECTION 13 – DISPOSAL CONSIDERATIONS (non-mandatory)

SECTION 14 – TRANSPORT INFORMATION (non-mandatory)

SECTION 15 – REGULATORY INFORMATION

US FDA – Class II Medical Device

SECTION 16 – OTHER INFORMATION

CA Prop. 65: This product contains a chemical(s) known to the State of California to cause cancer.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING:

Health= 2 Flammability = 1 Reactivity= 2 Protective Equipment= F

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