

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

073904406

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

073904356 073904380 073904398 073904422

**MEDICAL EMERGENCIES: CHEMTREC ASSISTANCE: (800) 424-9300**

## **SECTION I – PRODUCT IDENTIFICATION**

**PRODUCT NAME:** AMS GLI, GL15, GL825

**SYNONYM:** None

**CHEMICAL FAMILY:** Polyaziridine

**FORMULA:** Proprietary Formulation

**CAS NUMBER:** None Assigned

**DOT SHIPPING NAME:** None Assigned

**DOT HAZARD CLASS:** None Assigned

**UN/NA NUMBER:** None Assigned

**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING:**

Health = 2 Flammability = 1 Reactive = 1 Protective Equipment = B

## **SECTION II - HEALTH SAFETY ALERT**

### **CAUTION:**

Avoid contact with skin and eyes. Avoid prolonged or repeated inhalation of vapors. Wear eye, hand and skin protective equipment when using this product. Do not use this product until MSDS has been read and understood. Components of this product may be harmful if swallowed, inhaled or absorbed through skin.

## **SECTION III - HEALTH HAZARD INFORMATION**

**EYE:** Direct contact with liquid can produce moderate to severe irritation.

**SKIN:** May produce mild irritation on prolonged or repeated contact.

**INHALATION:** Prolonged or repeated inhalation may produce nose or throat irritation, headache, nausea and dizziness.

**INGESTION** Swallowing this product may lead to mouth and stomach irritation accompanied by burning pain, nausea, vomiting and diarrhea. SEE SECTION XII - COMMENTS.

## **SECTION IV - EMERGENCY AND FIRST AID PROCEDURES**

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

**SKIN CONTACT:** Wipe or wash material from skin. Wash contaminated clothing. Seek medical aid.

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

**INGESTION:** Contact CHEMTREC at 1-800-424-9300 and seek medical aid.

## **SECTION V - FIRE AND EXPLOSION HAZARD INFORMATION**

**FLASH POINT & METHOD:** N/A

**FLAMMABLE LIMITS, LOWER:** N/A

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical powder, polymer foam

**FIRE AND EXPLOSION HAZARDS:** Combustion can evolve carbon monoxide and oxides of nitrogen, and HCl

## **SECTION VI - SPILL, LEAK, AND DISPOSAL INFORMATION**

**SPILL OR LEAK PROCEDURES:** Contain and solidify with absorber and place in a suitable closed container. Wear gloves. For very large spills, use personal respiratory protection and eye protection.

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

## **SECTION VII - RECOMMENDED OCCUPATIONAL EXPOSURE LIMIT/HAZARDOUS INGREDIENTS**

**EXPOSURE LIMIT (Product):** None Established

### **HAZARDOUS INGREDIENTS**

Polyaziridine N/A < 5.0 Not Established Hydrochloric Acid 7647-01-0 < 5.0 OSHA PEL: 8H TWA 5PPM (7mg/m<sup>3</sup>)

## **SECTION VII - PERSONAL PROTECTION INFORMATION**

**EYE PROTECTION:** Safety glasses.

**SKIN PROTECTION:** Gloves impervious to formaldehyde.

**RESPIRATORY PROTECTION:** NIOSH/OSHA approved air purifying. air-line respirator or self containing respirator should be used whenever spills occur.

**VENTILATION:** Use in a well ventilated area.

## **SECTION IX - PERSONAL HANDLING INSTRUCTION**

### **HANDLING: STORAGE: OTHER:**

No special handling required. Avoid prolonged, excessive or repeated skin contact or inhalation. Avoid eye contact.

Keep away from sparks and flame. This product can react with oxidizing agents, peroxides or concentrated acids or bases. Do not take internally. Wash exposed areas promptly and thoroughly after contact and before eating, drinking, use of tobacco products, or use of restrooms. Do not wear contacts without eye protection.

## **SECTION X - REACTIVITY DATA**

**CONDITIONS CONTRIBUTING TO INSTABILITY:** None.

**INCOMPATIBILITY :** Strong acids, bases, peroxides, oxidizing agents.

**HAZARDOUS REACTIONS/ DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, ammonia and oxides of nitrogen.  
**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:** None.

## **SECTION XI - PHYSICAL DATA**

**BOILING POINT:** N/A **SPECIFIC GRAVITY:** N/A  
**MELTING POINT:** N/A **VOLATILE BY VOL:** N/A  
**VAPOR PRESSURE:** N/A **EVAPORATION RATE:** N/A  
**VAPOR DENSITY:** N/A **VISCOSITY:** N/A  
**SOLUBILITY:** 100% Ph: 4-5  
**APPEARANCE/ODOR:** Colorless liquid, very slight "amine odor"

## **SECTION XII – COMMENTS**

Persons with a history of disease or illness involving the skin, eyes, respiratory tract or circulatory system may be at greater risk of developing adverse health effects from exposure to this product. No known ingredients which occur at greater than 0.1 % are listed as carcinogens by the IARC Monographs on the Evaluation of the Carcinogenic Risk to Humans, the NTP Annual Report on Carcinogens, or OSHA 29 CFR 1910.1001-1047 Subpart Z Toxic and Hazardous Substances. ALDEX is a registered trademark of WCM Inc.

NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, WCM Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

This product is manufactured by WCM Inc.

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** ALDEX® Liquid

**Other means of identification**

**Synonyms** AMSL1, AMSL1-12, AMSL15, AMSL825

**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.

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

## 5. Fire-fighting measures

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

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Methods and materials for containment and cleaning up</b>	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.
<b>Environmental precautions</b>	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

<b>Precautions for safe handling</b>	Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	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 <sup>3</sup>	Total particulate.
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).		
<b>Appropriate engineering controls</b>	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**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	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**

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Colorless.
<b>Odor</b>	Slight amine
<b>Odor threshold</b>	Not available.
<b>pH</b>	4 - 5
<b>Melting point/freezing point</b>	270.86 °F (132.7 °C) estimated
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.

**Upper/lower flammability or explosive limits**

<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0.00001 hPa estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	100 %
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

**Other information**

<b>Density</b>	1.32 g/cm3 estimated
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.
<b>Percent volatile</b>	66.16 % estimated
<b>Specific gravity</b>	1.32 estimated
<b>VOC (Weight %)</b>	15 % estimated

## 10. Stability and reactivity

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

## 11. Toxicological information

### Information on likely routes of exposure

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

### Information on toxicological effects

#### Acute toxicity

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

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

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

SDS US

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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](mailto: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:**

N-Methylolacrylamide  
Benzotriazole  
Sodium Nitrite  
APS (Catalyst A)  
ZFS (Catalyst B)

**CAS Number:**

924-42-5  
95-14-7  
7632-00-0  
7727-54-0100  
24887-06-7

(See Section 8 for exposure limits)



## 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/m<sup>3</sup> for total dust.

**Ingredients CAS NO. Percent Exposure:**

*Solution:*

N-Methylolacrylamide 924-42-5 < 60 l mg/m<sup>3</sup> [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/m<sup>3</sup> (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

Isolyser and SMS are registered trademarks of WCM, Inc.

**Disclaimer:** While the information and recommendations set forth herein are believed to be accurate as of the date hereof, WCM Inc, makes no warranty with respect thereto and disclaims all liability from reliance thereon. This product line is manufactured by WCM Inc.