

SAFETY DATA SHEET

Page 1 of 13
MSDS Date: 1/22/2015
Print Date: 6/17/2015

Section 1: IDENTIFICATION

Product Name: Medium Urethane Reducer
Product Code: FS5655
Manufacturer
Address: IAMG
1505 North Hayden Rd.
Suite 111
Scottsdale, AZ 85257

General Information: 480-451-4451
CHEMTREC: 800-424-9300

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

GHS Classification:

Flammable liquids (Category 2)
Eye irritation (Category 2A)
Skin irritation (Category 2)
Reproductive toxicity (Category 2)
Specific target organ toxicity - repeated exposure (Category 2)
Specific target organ toxicity - single exposure (Category 3), Central nervous system
Aspiration hazard (Category 1)

Hazard Statements:

Highly flammable liquid and vapor
Causes serious eye irritation
Causes skin irritation.
Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure
May cause drowsiness or dizziness
May be fatal if swallowed and enters airways

GHS Labeling



Symbol:

Signal Word: Danger

Precautionary Statements:

Prevention:

Do not breathe mist/vapors/spray.
Do not handle until all safety precautions have been read and understood.
Ground/bond container and receiving equipment.
Keep away from heat/sparks/open flames/hot surfaces-no smoking.
Keep container tightly closed.
Obtain special instructions before use.
Take precautionary measure against static discharge.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:

Do NOT induce vomiting.
Get medical advice/attention if you feel unwell.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.

SAFETY DATA SHEET

Print Date: 6/17/2015

If inhaled: Remove person to fresh air and keep comfortable for breathing.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower.
If skin irritation occurs: Get medical advice/attention.
If swallowed: Immediately call a poison center/doctor.
In case of fire: Use carbon dioxide, water spray mist or foam, dry chemical to extinguish.
Take off contaminated clothing and wash it before reuse.

Storage:

Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Potential Health Effects: See Section 11 for more information

This product does not contain carcinogens or potential carcinogens as listed by IARC, NTP, or ACGIH.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

No.	Component	CAS REG. NO.	Amount %			ACGIH	
				TWA	STEL	TWA	STEL
1	n-Butyl acetate	CAS #123-86-4	1-50		200 ppm		200 ppm
2	PM Acetate	CAS # 108-65-6	1-50		Not Avail	Not Avail	Not Avail
3	Toluene	CAS #108-88-3	1-50	200ppm		20 ppm	
4	Light Hydrotreated Distillate	CAS #68410-97-9	1-50	5 mg/m ³		5 mg/m ³	
5	Methyl Ethyl Ketone	CAS # 78-93-3	1-50	200 ppm	300 ppm		300 ppm

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Skin: Wash off with soap and plenty of water. Remove contaminated clothing, and any extraneous chemical. Get medical attention if irritation persists.

Eyes: Immediately flush eyes with water for at least 20 minutes while holding eyelids open. Remove contact lenses. Consult a physician.

Section 5: FIRE FIGHTING MEASURES

Flash Point (Methyl Ethyl Ketone): -9°C (16°F) CC

Auto-ignition Temperature (Methyl Ethyl Ketone): 404°C (759°F)

Flammability Classification: Flammable Liquid Class IB

Flammable Limits in Air by Volume: lel 1.4; uel 11.4

Suitable Extinguishing Media:

SAFETY DATA SHEET

Print Date: 6/17/2015

Use methods appropriate for the surrounding fire. Consider carbon dioxide, water spray mist or foam, dry chemical.

Products of Combustion:

Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, and hydrocarbon fragments.

Fire Fighting Equipment/Instructions:

A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

Specific Hazards:

Take precautionary measures against static discharges. Explosive vapor could form. Highly flammable. Vapors are toxic when inhaled.

HAZARD	HMIS	NFPA
Toxicity	2	2
Fire	3	3
Reactivity	0	0

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: For large spills wear gloves, Tyvek suits, safety glasses, and appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Special Properties: Flammable Liquid! This material releases vapors at or below ambient temperatures. When mixed with air in certain proportions and exposed to an ignition source, its vapor can cause a flash fire. Use only with adequate ventilation. Vapors are heavier than air and may travel long distances along the ground to an ignition source and flash back. A vapor and air mixture can create an explosion hazard in confined spaces such as sewers. If container is not properly cooled, it can rupture in the heat of a fire.

Environmental Precautions: Prevent discharge to open bodies of water, municipal sewers, and watercourses.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth. Control runoff and isolate discharged material for proper disposal. Approach release from upwind.

Methods for Clean-up: Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container.

SAFETY DATA SHEET

Print Date: 6/17/2015

Section 7: HANDLING AND STORAGE

Handling:

Keep away from heat, sparks and flame. Use only with adequate ventilation.
To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Storage:

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep away from acids and oxidizers.

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protective Equipment (PPE)

Respiratory Protection: Wear appropriate respirator when ventilation is inadequate.

Eye/Face Protection: Splash proof chemical goggles and face shield.

Hand Protection: Impervious solvent gloves butyl rubber, the breakthrough time of the selected glove(s) must be greater than the intended use period.

Body: Avoid skin contact. If product comes in contact with clothing, immediately remove soaked clothing and shower. Wear long sleeve shirts and trousers without cuffs. Solvent resistant apron if splashes are likely to occur, wear flame retardant protective clothing solvent resistant apron and boots.

Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and safety shower facilities.

See section 3 for exposure limits.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State	Liquid
Color	Colorless
Odor	Not Available
pH (1%soln/water)	Not Available
Vapor Density (Methyl Ethyl Ketone)	2.5 (air = 1)
Boiling Point (Methyl Ethyl Ketone)	80°C (176°F) @ 760 mm Hg
Vapor Pressure (Methyl Ethyl Ketone)	78 at 20°C (68°F)
Melting Point (Methyl Ethyl Ketone)	-86°C (-123°F)
Freezing Point (Methyl Ethyl Ketone)	-86°C (-123°F)
Flash Point	(See Section 5)
Flammability Properties	(See section 5)
Solubility (in water)	Soluble

SAFETY DATA SHEET

Print Date: 6/17/2015

Specific Gravity (Methyl Ethyl Ketone) 0.81 at 20°C (Water=1)

Evaporation Rate 2.7

Octanol/Water partition coefficient (Kow) Not Available

Auto-ignition temperature: (Methyl Ethyl Ketone) 404°C (759°F)

Decomposition temperature: Not Available

Viscosity: Not Available

SAFETY DATA SHEET

Print Date: 6/17/2015

Section 10: STABILITY AND REACTIVITY

Stability: This material is considered stable at ambient temperatures 70°C (21°C).

Condition to Avoid: Flames, sparks, electrostatic discharge, heat and other ignition sources.

Incompatible Materials: Oxidizing agents, Strong reducing agents

Hazardous Decomposition: Upon decomposition, this product evolves carbon monoxide, carbon dioxide, aldehydes, and flammable hydrocarbon fragments (eg acetylene).

Hazardous Reactions: This product will not undergo polymerization.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Component Analysis LD50

Methyl Ethyl Ketone (78-98-3)

Oral LD50 2737 mg/kg

Inhalation rat LC50 23,500 mg/m³/8-hr

Skin rabbit LD50 6480 mg/kg

n-butyl acetate (123-86-4)

LD50 Oral - rat - 10,700 - 14,130 mg/kg

LC50 Inhalation - rat - 4 h - > 21.0 mg/l

LD50 Dermal - rabbit - 17,600 mg/kg

PM Acetate (108-65-6)

Oral LD50 Rat 8500 mg/kg (female)

Oral LD50 Rat 10,000 mg/kg (male)

Inhalation LC50 Rat 4345 ppm Skin

Rabbit LD50 5000 mg/kg

Toluene (108-88-3)

48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static];

48 Hr EC50 Daphnia magna: 11.5 mg/L

Inhalation LC50 Rat 12.5 mg/L 4 h;

Inhalation LC50 Rat >26700 ppm 1 h;

Oral LD50 Rat 636 mg/kg;

Dermal LD50 Rabbit 8390 mg/kg;

Dermal LD50 Rat 12124 mg/kg

CHRONIC EFFECTS:

Component

Methyl Ethyl Ketone (78-93-3)

Carcinogenicity: Not listed by IARC, ACGIH, NTP, or OSHA.

Neurotoxicity: No information available

Mutagenicity: No information available

Reproductive: No information available

Developmental: No information available

SAFETY DATA SHEET

Page 7 of 13

MSDS Date: 1/22/2015

Print Date: 6/17/2015

Target Organs: Central nervous system depression, Gastrointestinal disturbance, narcosis. Prolonged exposure may cause central nervous system effects. Central nervous system depression, Gastrointestinal disturbance, narcosis May cause drowsiness or dizziness.

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.

Skin May be harmful if absorbed through skin. Causes skin irritation.

SAFETY DATA SHEET

Page 8 of 13

MSDS Date: 1/22/2015

Print Date: 6/17/2015

I

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

n-butyl acetate (123-86-4)

Carcinogenic Effects: No component is identified by IARC, ACGIH, NTP, or OSHA

Mutagenic Effects: Not Available

Teratogenic Effects: Developmental Toxicity - rat - Inhalation

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.

Developmental Toxicity: Not Available

Target Organs: **Inhalation** May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

PM Acetate (108-65-6)

Carcinogenicity: ACGIH A4 – Not Classifiable as a Human Carcinogen

Neurotoxicity: No information available for product

Mutagenicity: No information available for product.

Reproductive: No information available for product.

Developmental: No information available for product.

Target Organs: **Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Toluene (108-88-3)

Carcinogenic Effects: 3 - Not classifiable as to its carcinogenicity to humans (Toluene).

Mutagenic Effects: Not Available.

Teratogenic Effects: Not Available

Reproductive Toxicity: Damage to fetus possible.

Suspected human reproductive toxicant.

Developmental Toxicity: Reproductive effects in experimental animals and in long term chemical abuse situations.

Target Organs: Long-term overexposure to toluene has been associated with impaired color vision. Also, long-term overexposure to toluene in occupational environments has been associated with hearing damage. Skin, respiratory system, Central nervous system, Heart, blood, kidneys, lungs, liver, mucous membrane, brain, eyes, lens, or cornea. Lung irritation, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.

Light Hydrotreated Distillate (CAS #68410-97-9)

Carcinogenic Effects: Not Available

Mutagenic Effects: Not Available

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: **Routes of exposure** Inhalation. Ingestion. **Eyes** Avoid contact with eyes. Causes eye irritation. **Skin** Avoid contact with the skin. Contact with skin may cause irritation. **Inhalation** Prolonged inhalation may be harmful.

SAFETY DATA SHEET

Page 9 of 13

MSDS Date: 1/22/2015

Print Date: 6/17/2015

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Methyl Ethyl Ketone (78-98-3)

Fish LC50/960hour > 100 mg/l

mortality NOEC - Cyprinodon variegatus (sheepshead minnow) - 400 mg/l - 96 h

LC50 - Pimephales promelas (fathead minnow) - 3,130 - 3,320 mg/l - 96 h
LC50 - Daphnia magna (Water flea) - > 520 mg/l - 48 h
EC50 - Daphnia magna (Water flea) - 7,060 mg/l - 24 h

Ecotoxicity n-butyl acetate (123-86-4)

LC50 - Lepomis macrochirus (Bluegill) - 100 mg/l - 96 h
EC50 - Daphnia magna (Water flea) - 72.8 - 205.0 mg/l - 24 h

Ecotoxicity: PM Acetate (108-65-6)

96 h LC-50 (fathead minnow): 161 mg/l 48 h LC-50 (daphnid): 408 mg/l

Ecotoxicity: Toluene (108-88-3)

96 Hr EC50 Pseudokirchneriella subcapitata: >433 mg/L;
72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static] mg/L [flow-through] (1 day old);
96 Hr LC50 Pimephales promelas: 12.6 mg/L [static];
96 Hr LC50 Oncorhynchus mykiss: 5.89-7.81 mg/L [flowthrough];
96 Hr LC50 Oncorhynchus mykiss: 14.1- 17.16 mg/L [static];
96 Hr LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static];
96 Hr LC50 Lepomis macrochirus: 11.0-15.0 mg/L [static];
96 Hr LC50 Oryzias latipes: 54 mg/L [static];
96 Hr LC50 Poecilia reticulata: 28.2 mg/L [semi-static];
96 Hr LC50 Poecilia reticulata: 50.87-70.34 mg/L [static]
48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static];
48 Hr EC50 Daphnia magna: 11.5 mg/L

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Section 14: TRANSPORT INFORMATION

Proper Shipping Name: Paint related material

Hazard Class: 3

Identification No.: UN1263

Packing Group: II

Label: Flammable

Section 15: REGULATORY INFORMATION

TSCA Inventory This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304 The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 313: Toluene (CAS #108-88-3)

SAFETY DATA SHEET

Page 11 of 13

MSDS Date: 1/22/2015

Print Date: 6/17/2015

CERCLA The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to

SAFETY DATA SHEET

Print Date: 6/17/2015

Page:8

this statute are: Methyl Ethyl Ketone RQ = 5,000lbs, Toluene [CAS No.: 108-88-3] RQ = 1000 lbs. (453.6 kg), butyl Acetate [CAS No. 123-86-4] RQ=5,000 lbs

SARA 311/312 Hazard The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard, Fire Hazard

Additional Regulatory Remarks

Federal Hazardous Substances Act, related statutes, and Consumer Product Safety Commission regulations, as defined by 16 CFR 1500.14(b)(3) and 1500.83(a)(13): This product contains Toluene which may require special labeling if distributed in a manner intended or packaged in a form suitable for use in the household or by children. Precautionary label dialogue should display the following: **DANGER: Contains Toluene! Harmful or fatal if swallowed! Call Physician Immediately. Vapor Harmful! KEEP OUT OF REACH OF CHILDREN!**

California Prop 65: Toluene developmental toxicity

Section 16: OTHER SUPPLEMENTAL INFORMATION

Prepared by: Chemisphere Corp. on 5/22/14

Disclaimer:

The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

Chemisphere, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Chemisphere be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE BY CHEMISPHERE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance

SAFETY DATA SHEET

Print Date: 6/17/2015

which is the subject matter of this SDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof.

This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.