

SAFETY DATA SHEET

This Safety Data Sheet Complies With the Requirements of: 29 CFR 1910.1200

Revision Date: 07-Apr-2015 Version 1

1. IDENTIFICATION

Product Identifier

Product Name D-SHIELD DS-113

Other Means of Identification

Product Code DS-113 UN/ID no UN2810

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Surfactant.

Details of the Supplier of the Safety Data Sheet

Aegis Chemical Solutions Corporate Headquarters 4560 Kendrick Plaza Dr., Ste 190 Houston, TX 77032

Telephone: 281-258-4095

Emergency Telephone Number

Company Phone Number 281-258-4095

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral Category 3

Label Elements

Emergency Overview

Danger

Hazard Statements

Toxic if swallowed



Color Colorless to Light yellow Physical State Liquid Odor Amine-like

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not applicable

Other Information

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	Weight-%
Methanaminium, N,N,N-trimethyl-, chloride	75-57-0	25

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of First Aid Measures

General Advice Immediate medical attention is required.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician

immediately.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

Inhalation Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial

respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person. Drink plenty of water.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising From the Chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency procedures

Personal Precautions Use personal protective equipment as required. Keep people away from and upwind of

spill/leak.

Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for Cleaning Up Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into

suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Appropriate Engineering Controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual Protection Measures, Such as Personal Protective Equipment

Eye/Face Protection Tight sealing safety goggles.

Skin and Body Protection No special technical protective measures are necessary. Wear protective gloves and

protective clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State Liquid
Odor Amine-like

Odor Amine-like Color Colorless to Light yellow

Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 5 - 10

Melting Point/Freezing Point< -25 °C / -13 °F</th>Boiling Point/Boiling RangeNo information availableFlash PointNo information availableEvaporation RateNo information availableFlammability (solid, gas)No information available

Flammability Limit in Air

Upper Flammability Limit:No information availableLower Flammability Limit:No information available

Vapor Pressure < 0.0001 hPa

Vapor Density No information available

Specific Gravity ~1.02

Water Solubility Soluble in water

Solubility in Other Solvents
Partition Coefficient
Autoignition Temperature
Decomposition Temperature
Kinematic Viscosity
No information available
No information available
No information available
No information available

Dynamic Viscosity 4.6 cP @ 25°C

Explosive PropertiesNo information available
Oxidizing Properties
No information available

Other Information

Softening Point
Molecular Weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information Toxic by ingestion.

Inhalation Inhalation of dusts/mists in high concentration may cause irritation of respiratory system.

Eye Contact May cause slight irritation.

Skin Contact May cause slight irritation. Prolonged contact may cause redness and irritation.

Ingestion Toxic if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methanaminium, N,N,N-trimethyl-,	= 50 mg/kg (Rat)	-	-
chloride			
75-57-0			

Information on Toxicological Effects

Symptoms No information available.

Delayed and Immediate Effects as Well as Chronic Effects From Short and Long-term Exposure

Sensitization No information available.

Germ Cell Mutagenicity Not known to cause heritable genetic damage.

Carcinogenicity No information available.

Reproductive ToxicityThis product does not contain any known or suspected reproductive hazards.
Not known to cause birth defects or have a deleterious effect on a developing fetus.

STOT - Single Exposure
STOT - Repeated Exposure
Aspiration Hazard

No information available.
No information available.

Numerical Measures of Toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 198 mg/kg
ATEmix (dermal) > 5000 mg/kg
ATEmix (inhalation-dust/mist) > 5 mg/l
ATEmix (inhalation-vapor) > 20 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

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Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Methanaminium, N,N,N-trimethyl-,	-	431 - 495: 96 h Pimephales	-
chloride		promelas mg/L LC50 flow-through	
75-57-0			

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other Adverse Effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal should be in accordance with applicable regional, national and local laws and **Disposal of Wastes**

regulations.

Do not reuse container. Empty drums should be completely drained properly bunged and **Contaminated Packaging**

promptly returned to a drum reconditioner, or properly disposed.

14. TRANSPORT INFORMATION

DOT

UN/ID no UN2810

Toxic liquids, organic, n.o.s. (contains tetramethylammonium chloride) **Proper Shipping Name**

Hazard Class 6.1 **Packing Group**

DOT Description UN2810, Toxic liquids, organic, n.o.s., (contains tetramethylammonium chloride), 6.1, PG II

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA DSL/NDSL** Complies Complies **EINECS/ELINCS** Does not comply **ENCS IECSC** Complies **KECL** Complies Complies **PICCS**

AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health Hazards 2 Flammability 0 Instability 0 Physical and Chemical Properties -

HMIS Health Hazards 2 Flammability 0 Physical Hazards 0 Personal Protection X

Revision Date: 07-Apr-2015

Revision Note:

This SDS was updated to comply with the 2012 OSHA Hazard Communication Standard.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet