

ISSUE DATE: March 2015 **REVISION DATE:** October 2015 **VERSION: 1**

1. IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME MAXIMUM

OTHER MEANS OF IDENTIFICATION

Product Code HCS-107

Pot and pan dish soap. Consult your Service Representative for specific use directions. Do not mix with anything but water. Use only

Recommended Uses and Uses

Advised Against

in an approved dispenser. Remove detergent container cover. Place container open end down in dispenser. Carefully lift container, when empty, from dispenser. Turn upright, and use cover from new container. If product contacts hands, wash off immediately.

SDS-SUPPLIER INFORMATION

EMULSO

SUPPLIER ADDRESS 2750 Kenmore Avenue

Tonawanda, NY 14150

EMERGENCY TELEPHONE NUMBER

COMPANY PHONE NUMBER (716) 854-2889 **COMPANY FAX NUMBER** (716) 854-2809

24-HOUR EMERGENCY TELEPHONE (ACCOUNT #8686)

NORTH AMERICA 1-800-633-8253

INTERNATIONAL PERS 1-801-629-0667

2. HAZARDS IDENTIFICATION

CLASSIFICATION (GHS-US)

Skin Corrosion 1B H314

Carc. 1A H350

Full text of H-phrases: See section 16

SIGNAL WORD Danger

HAZARD STATEMENTS



HAZARD STATEMENTS May cause cancer

PRECAUTIONARY STATEMENTS

PREVENTION Obtain special instructions before use.



Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Immediately call a poison center/doctor.

Specific treatment (see section 4). **RESPONSE**

Wash contaminated clothing before reuse.

IF SWALLOWED Rinse mouth. Do NOT induce vomiting

> Rinse cautiously with water for several minutes. Remove contact lenses, if IF IN EYES

present and easy to do. Continue rinsing.

IF ON SKIN/HAIR Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention. **EXPOSED/CONCERNED**

> STORAGE Store locked up.

Dispose of contents/container to according to local, state, and federal regulations. DISPOSAL

OTHER HAZARDS No additional information available.

UNKNOWN ACUTE

Not applicable. **TOXICITY**

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE Not applicable.

CHEMICAL NAME	CAS NUMBER	WEIGHT - %	CLASSIFICATION (GHS-US)
Monoethanolamine	141-43-5	10-14	Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Dermal), H312
			Acute Tox. 4 (Inhalation:dust,mist), H332
			Skin Corr. 1B, H314
Ethanol	64-17-5	2.6-3	Flam. Liq. 2, H225
			Carc. 1A, H350

Full text of H-phrases: See section 16

4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE Provide this SDS to medical personnel for treatment.

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**



EYE CONTACT

Safety Data Sheet

Immediately flush eye with copious amounts of cool, running water. Remove

contact lenses if applicable, and continue flushing for at least 15 minutes, holding

eyelids apart to ensure thorough rinsing of the entire eye.

GET IMMEDIATE MEDICAL ATTENTION.

Immediately flush skin with copious amounts of cool, running water for at least 15 **SKIN CONTACT**

minutes while removing contaminated clothing and shoes. Call a physician,

immediately. Wash clothing before re-use.

Move victim to fresh air and keep at rest position. If qualified give oxygen or **INHALATION**

artificial respiration as needed.

DO NOT induce vomiting. Give large amounts of water if victim is conscious.

INGESTION Never give anything by mouth to an unconscious person. Seek medical attention

immediately.

PROTECTION OF FIRST

AIDERS

DO NOT use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration. With the aid of a pocket mask equipped with a one-

way valve or other proper respiratory medical device.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE & DELAYED

Skin/eye burns. Corrosive to mouth and throat. Ingestion can cause severe and MAIN SYMPTOMS

rapid burning of mouth, throat and digestive tract. Mucous membrane irritant.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF **NECCESARY**

If ingested, probable mucosal damage may contraindicate the use of gastric **NOTES TO PHYSICIAN** lavage.

5. FIRE-FIGHTING MEASURES

The material is not combustible. Use extinguishing media

appropriate for surrounding fire. Use water spray or fog, foam, dry SUITABLE EXTINGUISHING MEDIA chemical, carbon dioxide, alcohol foam, if product is involved.

Use of water spray when fighting fire may be inefficient.

SPECIFIC HAZARDS ARISING FROM

CHEMICAL

No additional information available.

EXPLOSION DATA

SENSITIVITY TO MECHANICAL IMPACT None. SENSITIVITY TO STATIC DISCHARGE None.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Wet product is slippery. Avoid physical contract with wet material; highly caustic. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH approved or equivalent to maintain TLV.



6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

NON-EMERGENCY PERSONNEL

Ensure adequate ventilation. Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Avoid breathing dust, fume, gas, mist, vapors, and spray. Wash face, hands and any

exposed skin thoroughly after handling.

EMERGENCY RESPONDERS ENVIRONMENTAL PRECAUTIONS

Do not attempt to take action without suitable protective equipment.

Avoid release to the environment.

METHODS AND MATERIALS FOR CONTAMINATION AND CLEAN-UP

CONTAMINATION AND CLEAN-UP

Prevent further leakage or spillage if safe to do so. Sweep up solids, soak up if liquified. Transfer to appropriate waste container. Neutralize residue with mild acid and flush with water. Dispose of in accordance with local, state, and federal regulations.

REFERENCE TO OTHER SECTIONS

For further information refer to section 13.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

PROTECTIVE MEASURES

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Do not eat, drink or smoke when using this product. Always use personal protective equipment.

CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES)

STORAGE CONDITIONS

SPECIFIC END USE(S)

Store locked up. Keep container in well-ventilated area. Keep container tightly closed when not in operation. Store away from incompatible materials. Keep out of the reach of children.

Pot and pan dish soap. Consult your Service Representative for specific use directions. Do not mix with anything but water. Use only in an approved dispenser. Remove detergent container cover. Place container open end down in dispenser. Carefully lift container, when empty, from dispenser. Turn upright, and use cover from new

container. If product contacts hands, wash off immediately.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

MAXIMUM

ACGIH Not applicable. OSHA Not applicable

Ethanol (64-17-5)

ACGIH ACGIH STEL (ppm) 1000 ppm ACGIH Remark (ACGIH) URT irr



OSHA OSHA PEL (TWA) (mg/m³) 1900 mg/m³ OSHA OSHA PEL (TWA) (ppm) 1000 ppm

Monoethanolamine (141-43-5)

 ACGIH
 ACGIH TWA (ppm)
 3 ppm

 ACGIH
 ACGIH STEL (ppm)
 6 ppm

 ACGIH
 Remark (ACGIH)
 Eye & skin irr

 OSHA
 OSHA PEL (TWA) (mg/m³)
 6 mg/m³

 OSHA
 OSHA PEL (TWA) (ppm)
 3 ppm

EXPOSURE CONTROLS

No additional information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Solid

COLOR Pink

There may be no odour warning properties, odour is subjective and

inadequate to warn of overexposure.

ODOR Mixture contains one or more component(s) which have the following

odour(s): Alcohol odour Pleasant odour Characteristic odour Mild odour Unpleasant odour Ammonia odour Smell of fish No data

available on odour Odourless

ODOR THRESHOLD No data available.

PROPERTY VALUES

pH 7.8

MELTING POINT/FREEZING POINT No data available.
BOILING POINT/BOILING RANGE No data available.

FLASH POINT > 250 °F

RELATIVE EVAPORATION RATE No data available.

(butyl acetate=1)

FLAMMABILITY (SOLID, GAS) No data available.

VAPOR PRESSURE No data available.

RELATIVE DENSITY No data available.

RELATIVE VAPOR DENSITY No data available.

AT 20 °C

WATER SOLUBILITY Water: Solubility in water of component(s) of the mixture:

< 0.1 g/100ml; 0.044 g/100ml; 44.45 g/100ml

LOG POW No data available.

LOG KOW No data available.

AUTOIGNITION TEMPERATURE No data available. **DECOMPOSITION TEMPERATURE** No data available.

VISCOSITY No data available.

VISCOSITY, KINEMATIC No data available.
VISCOSITY. DYNAMIC No data available.

VISCOSITY, DYNAMIC No data available. EXPLOSION LIMITS No data available.

EXPLOSIVE PROPERTIES No data available. **OXIDIZING PROPERTIES** No data available.

OTHER INFORMATION



No additional information available.

10. STABILITY AND REACTIVITY

The material is not combustible. Use extinguishing media appropriate

for surrounding fire. Use water spray or fog, foam, dry chemical, REACTIVITY carbon dioxide, alcohol foam, if product is involved. Use of water

spray when fighting fire may be inefficient. Stable under normal conditions.

CHEMICAL STABILITY **POSSIBILITY OF HAZARDOUS**

REACTIONS

No dangerous reactions known under normal conditions of use.

CONDITIONS TO AVOID INCOMPATIBLE MATERIALS

HAZARDOUS DECOMPOSITION **PRODUCTS** Strong oxidants.

Strong oxidants.

Oxides of sulfur and nitrogen.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects.

ACUTE TOXICITY Not classified.

Ethanol (64-17-5)

10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value) LD50 oral rat

LD50 dermal rabbit > 16000 mg/kg (Rabbit; Literature study)

ATE US (oral) 10740.000 mg/kg body weight

Monoethanolamine (141-43-5)

500.000 mg/kg body weight ATE US (oral) ATE US (dermal) 1100.000 mg/kg body weight

ATE US (dust, mist) 1.500 mg/l/4h

> Causes severe skin burns and eye damage. SKIN CORROSION/IRRITATION

pH: 7.8

Not classified. **SERIOUS EYE DAMAGE/IRRITATION**

pH: 7.8

RESPIRATORY OR SKIN SENSITIZATION

Not classified. **GERM CELL MUTAGENICITY** Not classified.

CARCINOGENICITY May cause cancer.

Ethanol (64-17-5)

IARC group 1 - Carcinogenic to humans

> REPRODUCTIVE TOXICITY Not classified.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE Not classified. EXPOSURE)

SPECIFIC TARGET ORGAN TOXICITY (REPEATED

Not classified. **EXPOSURE**)

ASPIRATION HAZARD Not classified.



12. ECOLOGICAL INFORMATION

TOXICITY

Ethanol (64-17-5)

LC50 fish 1 14200 mg/l (96 h; Pimephales promelas) EC50 Daphnia 1 9300 mg/l (48 h; Daphnia magna)

LC50 fish 2 13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)

EC50 Daphnia 2 10800 mg/l (24 h; Daphnia magna)

Threshold limit other aquatic organisms 1 65 mg/l (72 h; Protozoa)

Threshold limit algae 1 1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)
Threshold limit algae 2 5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)

Monoethanolamine (141-43-5)

LC50 fish 1 150 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Pure

substance)

EC50 Daphnia 1 140 mg/l (Daphnia magna; Pure substance)

LC50 fish 2 329.16 mg/l (96 h; Lepomis macrochirus; Pure substance)

TLM fish 1 100 - 1000,96 h; Pisces; Pure substance

TLM other aquatic organisms 1 100 - 1000,96 h; Pure substance

PERSISTENCE AND DEGRADIBILITY

Ethanol (64-17-5)

Persistence and degradability Readily biodegradable in water. Biodegradable in the soil. Highly

mobile in soil.

Biochemical oxygen demand (BOD) $0.8 - 0.967 \text{ g O}_2/\text{g}$ substance Chemical oxygen demand (COD) $1.70 \text{ g O}_2/\text{g}$ substance ThOD $2.10 \text{ g O}_2/\text{g}$ substance

BOD (% of ThOD) 0.43 % ThOD

Monoethanolamine (141-43-5)

Persistence and degradability Readily biodegradable in water. Biodegradable in the soil.

Biochemical oxygen demand (BOD) 0.80 g O₂/g substance Chemical oxygen demand (COD) 1.34 g O₂/g substance ThOD 2.49 g O₂/g substance

BOD (% of ThOD) 0.32 % ThOD

BIOACCUMULATIVE POTENTIAL

Ethanol (64-17-5)

BCF fish 1 1 (72 h; Cyprinus carpio)
Log Pow -0.31 (Experimental value)

Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4)

Monoethanolamine (141-43-5)

Log Pow -1.91

Bioaccumulative potential Bioaccumulation: not applicable

MOBILITY IN SOIL

Ethanol (64-17-5)

Surface tension 0.022 N/m (20 °C)

OTHER ADVERSE EFFECTS



EFFECT ON THE GLOBAL WARMING No known ecological damage caused by this product.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

Dispose of contents/container according to local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT

TRANSPORT DOCUMENT DESCRIPTION

UN2491 Ethanolamine solutions, 8, III

UN-NO. UN2491

PROPER SHIPPING NAME

TRANSPORT HAZARD CLASS(ES)

Ethanolamine solutions

8 - Class 8 - Corrosive material 49 CFR 173.136

8 - Corrosive

HAZARD LABELS



PACKAGING GROUP PACKAGING NON BULK (49 CFR 173.xxx) PACKAGING BULK (49 CFR 173.xxx) III - Minor Danger

203 241

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2,

31HB2, 31HN2, 31HD2 and 31HH2). Additional

Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for

SPECIAL PROVISIONS (49 CRF 172.102) UN2672).

T4 - 2.65 178.274(d)(2) Normal 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature

in degrees celsius of the liquid during filling.

PACKAGING EXCEPTIONS (49 CFR 173.xxx) **QUANTITY LIMITATIONS PASSENGER** AIRCRAFT/RAIL (49 CFR 173.27) QUANTITY LMITATIONS CARGO AIRCRAFT 154

5 L

ONLY (49 CFR 175.75)

60 L

VESSEL STOWAGE LOCATION

A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

VESSEL STOWAGE OTHER OTHER INFORMATION

52 - Stow "separated from" acids.

No supplementary information available.

ADR

No additional information available.



IMDG (TRANSPORTATION BY SEA)

UN-NO. UN2491

PROPER SHIPPING NAME Ethanolamine solution CLASS 8 – Corrosive substances

PACKAGING GROUP III – Substances presenting low danger.

IATA (AIR TRANSPORT)

UN-NO. UN2491

PROPER SHIPPING NAME Ethanolamine solution

CLASS 8 – Corrosives

PACKAGING GROUP III – Minor damage

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

MAXIMUM

Not listed on the United States TSCA (Toxic Substances Control Act) inventory.

ETHANOL (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

MONOETHANOLAMINE (141-43-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

INTERNATIONAL REGULATIONS

CANADA

No additional information available.

EU-REGULATIONS

No additional information available.

CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008 [CLP]

No additional information available.

CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC [DSD] OR 1999/45/EC [DPD]

Not classified.

NATIONAL REGULATIONS

ETHANOL (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

U.S. STATE REGULATIONS

ETHANOL (64-17-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

MONOETHANOLAMINE (141-43-5)

U.S. - New Jersey - Right to Know Hazardous Substance List



16. OTHER INFORMATION

FULL TEXT OF H-PHRASES:

Acute Tox. 4 (Dermal)
Acute Tox. 4 (Inhalation:dust,mist)
Acute Tox. 4 (Oral)
Carc. 1A
Flam. Liq. 2
Skin Corr. 1B
H225
H302
H312
H314
H332
H350

Acute toxicity (dermal) Category 4
Acute toxicity (inhalation:dust,mist) Category 4
Acute toxicity (oral) Category 4
Carcinogenicity Category 1A
Flammable liquids Category 2
Skin corrosion/irritation Category 1B
Highly flammable liquid and vapor
Harmful if swallowed
Harmful in contact with skin
Causes severe skin burns and eye damage
Harmful if inhaled
May cause cancer

DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge 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