



SAFETY DATA SHEET

SOY AMINE, DISTILLED

Version 1

Date 09/29/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SOY AMINE, DISTILLED

Product Use Description : Surfactant

Company : Chem International, Inc.
6099 Ponders Court
Greenville, SC 29615
USA

Telephone : +18644587868

Fax : +18644587783

Emergency telephone : CHEMTREC: +1 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

| | |
|------------|------------|
| Appearance | liquid |
| Color | yellow |
| Odor | ammoniacal |

GHS Classification

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Specific target organ systemic toxicity - single exposure : Category 3 (Respiratory system)

Specific target organ systemic toxicity - repeated exposure (Oral) : Category 2 (Gastrointestinal tract)

Aspiration hazard : Category 1

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

GHS Label element

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.

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H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure if swallowed.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.

Potential Health Effects

Inhalation : Inhalation of aerosols may cause irritation to mucous membranes.
Thermal decomposition can lead to release of irritating gases and vapors.
May cause respiratory irritation.
May be fatal if swallowed and enters airways.
Inhalation may cause central nervous system effects.

Skin : Burns may occur several hours after the removal of the product.
Symptoms may be delayed.
Causes severe skin burns.
The product may be absorbed through the skin.

Eyes : Vapor in the eyes may cause irritation and pain.
Causes severe eye burns.

Ingestion : Harmful if swallowed.
May cause irritation of the mucous membranes.
Causes burns.
May be fatal if swallowed and enters airways.

Aggravated Medical Condition : None known.

Symptoms of Overexposure : No information available.

Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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- NTP** : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- ACGIH** : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

| Chemical Name | CAS-No. | Classification | Concentration [%] |
|----------------------|------------|--|-------------------|
| Soya alkylamine | 61790-18-9 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 10 | 90 - 100 |
| Amines, disoya alkyl | 68783-23-3 | Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute): 1 | 1 - 5 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

- General advice : Immediate medical attention is required.
Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
Burns may occur several hours after the removal of the product.
- Inhalation : Obtain medical attention immediately.
If breathed in, move person into fresh air.
- Skin contact : Take off contaminated clothing and shoes immediately.
Wash skin immediately with 0,5 % acetic acid in water, and then with soap and water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Skin irritation, if untreated, may be prolonged and serious (e.g., necrosis). This may be prevented by early treatment with medium strength corticosteroids.
- Eye contact : In case of contact with eyes, rinse immediately with 0.5% acetic acid in water for a few minutes, followed by rinsing with plenty of water.
Get medical attention immediately. Continue to rinse during transport of patient.
Remove contact lenses.

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Protect unharmed eye.
Keep eye wide open while rinsing.
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

Ingestion : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.
Do not induce vomiting! May cause chemical burns in mouth and throat.

Notes to physician

Symptoms : No information available.

Risks : No information available.

Treatment : No information available.

5. FIRE-FIGHTING MEASURES

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

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting / Specific hazards arising from the chemical : Treat as oil fire.
Do not use a solid water stream as it may scatter and spread fire.
Water spray may be ineffective unless used by experienced firefighters.
Do not allow run-off from firefighting to enter drains or water courses.

Combustion products : Carbon oxides
Nitrogen oxides (NOx)

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.
Wear respiratory protection.
Ensure adequate ventilation.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

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Methods for cleaning up /
Methods for containment : Soak up with inert absorbent material (e.g. sand, silica gel,
acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

Additional advice : For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : For personal protection see section 8.
Avoid formation of aerosol.
Do not breathe vapors or spray mist.
Smoking, eating and drinking should be prohibited in the
application area.
Dispose of rinse water in accordance with local and national
regulations.

Advice on protection against
fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage
areas and containers : Prevent unauthorized access.
Keep container tightly closed in a dry and well-ventilated
place.
Avoid elevated temperatures.
Reacts with copper, aluminum, zinc and their alloys

Other data : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.

Engineering measures

Provide eyewash station and safety shower. Keep solutions of 0.5% acetic acid in water close at
hand.

Effective exhaust ventilation system

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing
problems.

Hand protection : Glove material: Nitrile rubber

: Glove material: butyl-rubber

Skin and body protection : Protective suit

Respiratory protection : In the case of vapor or aerosol formation use a respirator with
an approved filter.
Wear full face mask supplied with:

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Combination filter: ABEKP.

Hygiene measures : Avoid contact with skin, eyes and clothing.
When using do not eat or drink.
When using do not smoke.
Dry-clean contaminated clothing before reuse.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform
respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Color : yellow
Odor : ammoniacal
Odor Threshold : No data available

Safety data

pH : alkaline
Melting point/freezing point : 25 °C
Boiling point/boiling range : 220 °C
Flash point : > 150 °C
Method: closed cup
Evaporation rate : < 1
Flammability (solid, gas) : not applicable
Lower explosion limit : No data available
Upper explosion limit : No data available
Vapor pressure : < 1 hPa at 20 °C
Relative vapor density : No data available
Density : 811 kg/m³ at 25 °C
Relative density : 0.81 at 38 °C
Water solubility : slightly soluble, insoluble
Solubility in other solvents : No data available
Partition coefficient: n-
octanol/water : No data available
Autoignition temperature : No data available

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| | |
|---------------------------|--|
| Decomposition temperature | : No data available |
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : No data available |
| Explosive properties | : Not explosive |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Conditions to avoid | : Extremes of temperature and direct sunlight. |
| Materials to avoid | : Reacts with copper, aluminum, zinc and their alloys |
| Hazardous decomposition products | : No hazardous decomposition products are known. |
| Thermal decomposition | : No data available |
| Reactivity | : Stable under normal conditions. |
| Chemical stability | : Stable under recommended storage conditions. |
| Hazardous reactions | : No dangerous reaction known under conditions of normal use. |

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Toxicology Assessment

Further information : May cause damage to organs through prolonged or repeated exposure.

Test result

Acute oral toxicity : Acute toxicity estimate: 1,990 mg/kg
Method: Calculation method

Carcinogenicity:

| | |
|--------------|--|
| IARC | : No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| OSHA | : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
| NTP | : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |
| ACGIH | : No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |

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TOXICOLOGY DATA FOR THE INGREDIENTS:

Test result

Component: Soya alkylamine

- Acute oral toxicity : LD50: 1,950 mg/kg
Species: rat
Read-across (Analogy)
- Skin irritation : Result: Causes burns.
- Target Organ Systemic Toxicant - Single exposure : Routes of exposure: Inhalation
Target Organs: Respiratory Tract
May cause respiratory irritation.
- Target Organ Systemic Toxicant - Repeated exposure : Routes of exposure: Oral
Target Organs: Gastrointestinal tract
May cause damage to organs through prolonged or repeated exposure.
- Aspiration toxicity : May be fatal if swallowed and enters airways.

Component: Amines, disoya alkyl

- Acute oral toxicity : LD50: > 2,000 mg/kg
Species: rat
Read-across (Analogy)
- Skin irritation : Result: Irritating to skin.
Read-across (Analogy)
- Eye irritation : Result: Risk of serious damage to eyes.
Read-across (Analogy)

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

- Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

Further information on ecology

Hazardous to the ozone layer

- Regulation : 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
- Remarks : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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INGREDIENTS:

Test result

Component: Soya alkylamine

Ecotoxicity effects

- Toxicity to fish : LC50: > 0.1 - 1 mg/l
Exposure time: 96 h
Species: Cyprinodon sp. (minnow)
Read-across (Analogy)
- Toxicity to daphnia and other aquatic invertebrates : EC50: > 0.01 - 0.1 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Read-across (Analogy)
- M-Factor : 10

Elimination information (persistence and degradability)

- Bioaccumulation : Bioconcentration factor (BCF): > 500
Read-across (Analogy)
- Mobility : No data available
- Biodegradability : Result: Readily biodegradable.
Read-across (Analogy)

Further information on ecology

- Biochemical Oxygen Demand (BOD) : No data available

Component: Amines, disoya alkyl

Ecotoxicity effects

- Toxicity to fish : LC50: > 0.1 - 1 mg/l
Exposure time: 96 h
Species: Fish
Read-across (Analogy)
- M-Factor : 1

Elimination information (persistence and degradability)

- Bioaccumulation : No data available
- Mobility : No data available
- Biodegradability : Result: Not readily biodegradable.
Read-across (Analogy)

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Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

13. DISPOSAL CONSIDERATIONS

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Hazardous waste
Dispose of contents/container in accordance with local regulation.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

14. TRANSPORT INFORMATION

International regulation

IATA-DGR

UN/ID No. : UN 2735
Proper shipping name : Amines, liquid, corrosive, n.o.s.
(Alkylamine)
Class : 8
Packing group : II
Labels : 8
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851
Packing instruction (LQ) : Y840
Environmentally hazardous : yes

IMDG-Code

UN number : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
(Alkylamine)
Class : 8
Packing group : II
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes
(Alkylamine)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 2735

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Proper shipping name : Amines, liquid, corrosive, n.o.s.
: (Alkylamine)
Class : 8
Packing group : II
Labels : 8
ERG Code : 153
Marine pollutant : yes
(Alkylamine)
Reportable Quantity : This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

15. REGULATORY INFORMATION

Notification status

CH INV : YES. On the inventory, or in compliance with the inventory
TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.
DSL : YES. All components of this product are on the Canadian DSL.
AICS : YES. On the inventory, or in compliance with the inventory
NZIoC : NO. Not in compliance with the inventory
ENCS : NO. Not in compliance with the inventory
ISHL : NO. Not in compliance with the inventory
KECI : NO. Not in compliance with the inventory
PICCS : NO. Not in compliance with the inventory
IECSC : NO. Not in compliance with the inventory

For explanation of abbreviations, see section 16.

OSHA Hazards : Harmful by ingestion, Corrosive to skin, Corrosive to eyes, Corrosive to respiratory system

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

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This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

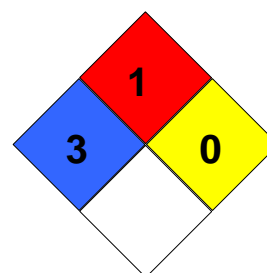
Full text of H-Statements

| | |
|------|---|
| H302 | : Harmful if swallowed. |
| H304 | : May be fatal if swallowed and enters airways. |
| H314 | : Causes severe skin burns and eye damage. |
| H315 | : Causes skin irritation. |
| H318 | : Causes serious eye damage. |
| H335 | : May cause respiratory irritation. |
| H373 | : May cause damage to organs through prolonged or repeated exposure if swallowed. |
| H400 | : Very toxic to aquatic life. |
| H410 | : Very toxic to aquatic life with long lasting effects. |

Further information

HMIS Classification : Health Hazard: 3
Flammability: 1
Physical hazards: 0

NFPA Classification : Health Hazard: 3
Fire Hazard: 1
Reactivity Hazard: 0



Notification status explanation

| | |
|--------|--|
| REACH | 1907/2006 (EU) |
| CH INV | Switzerland. New notified substances and declared preparations |
| TSCA | United States TSCA Inventory |
| DSL | Canadian Domestic Substances List (DSL) |
| AICS | Australia Inventory of Chemical Substances (AICS) |
| NZIoC | New Zealand. Inventory of Chemical Substances |
| ENCS | Japan. ENCS - Existing and New Chemical Substances Inventory |
| ISHL | Japan. ISHL - Inventory of Chemical Substances (METI) |
| KECI | Korea. Korean Existing Chemicals Inventory (KECI) |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances (PICCS) |
| IECSC | China. Inventory of Existing Chemical Substances in China (IECSC) |

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Further information

Revision Date 09/29/2015

The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material 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.