Safety Data Sheet (SDS)

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

Revision Date: Aug. 23, 2017

Section 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier
- Product Name: TOPS
- Product Code: OC14
- CAS Number: 40567-80-4
- EC Number: -

1.2 Details of the supplier of the safety data sheet
- Company: Dojindo Laboratories
- Address: Tabaru 2025-5 Mashiki-machi, Kamimashiki-gun, Kumamoto 861-2202, Japan
- Telephone: +81-96-286-1515
- Fax: +81-96-286-1525
- Emergency phone number: +81-96-286-1515

1.3 Product use
For research use only.

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008.[EU-GHS/CLP]
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

2.2 Label elements
Labeling according Regulation (EC) No 1272/2008 [EU-GHS/CLP]
- Pictogram: None
- Signal word: None
- Hazard statement(s): None
- Precautionary statement(s): None

2.3 Other hazards
None known.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Product Name: TOPS
- Synonyms: N-Ethyl-N-(3-sulfopropyl)-3-methylaniline, sodium salt, monohydrate
- Concentration: \( \leq 100\% \)
- Formula: \( C_{12}H_{18}NNaO_3S \cdot H_2O \)
- Molecular Weight: 297.34

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures
- Inhaled: If breathed in, move into fresh air. Seek medical advice if discomfort occurs. If not breathing, give artificial respiration. Call a physician. Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.
- Swallowed: Wash off with plenty of water. Remove contaminated clothing and launder before reuse.
- Skin contact: Wash off with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.
- Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

4.2 Most important symptoms and effects, both acute and delayed
No information available.

4.3 Indication of any immediate medical attention and special treatment needed
No information available.
**Section 5. FIRE-FIGHTING MEASURES**

5.1 Extinguishing media
   Use extinguishing media appropriate for the surrounding fire.

5.2 Special hazards arising from the substance or mixture
   May emit toxic fumes under fire conditions.

5.3 Special protective equipment for firefighters
   Wear self-contained breathing apparatus and full protective clothing if necessary.

**Section 6. ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment and emergency procedures
   Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Avoid contact with skin and clothing.

6.2 Environmental precautions
   Prevent further leakage. Prevent contamination of drains with product.

6.3 Methods and materials for containment and cleaning up
   Pick up and collect product in suitable container for disposal.

**Section 7. HANDLING AND STORAGE**

7.1 Precautions for safe handling
   Avoid contact with skin and eyes. Avoid formation of dust. Avoid breathing dust, vapors, mist or gas. Wear appropriate protective personal equipment. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities
   Keep tightly closed. Protect from light.
   Store in a cool, dark and dry place.

**Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1 Control parameters
   Contains no substances with occupational exposure limit values.

8.2 Exposure controls
   Engineering measures
   Ensure adequate ventilation, especially in confined areas.

   Hygiene measures
   Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handing.

   Personal protective equipment
   Eye/face protection: Wear safety glasses with side-shields conforming to European Standard EN166.
   Skin and body protection: Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.
   Respiratory protection: Wear suitable respiratory equipment in case of inadequate ventilation.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

- a) Appearance: White to slightly blue powder
- b) Odor: Odorless
- c) Odor Threshold: No data available
- d) pH: 8.0 - 10.0 (25°C)
- e) Melting point/freezing point: No data available
- f) Initial boiling point and boiling range: No data available
- g) Flash point: No data available
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): No data available
- j) Upper / lower flammability or explosive limits: No data available
- k) Vapor pressure: No data available
- l) Vapor density: No data available
- m) Relative density: No data available
- n) Solubility(ies): Solubility in water (1 g / 20 ml)
- o) Partition coefficient: n-octanol / water: No data available
- p) Auto-ignition temperature: No data available
- q) Decomposition temperature: No data available
- r) Viscosity: No data available
**Section 10. STABILITY AND REACTIVITY**

**Stability and reactivity**

- **Reactivity:** Stable
- **Chemical stability:** Stable at a cool, dark and dry place.
- **Possibility of hazardous reactions:** No data available
- **Conditions to avoid:** Heat, sunlight, high temperature
- **Incompatible materials:** Strong oxidizing agents, strong acids and bases
- **Hazardous decomposition products:** When decomposed, it may emit toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides.

**Section 11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

- **a) Acute toxicity:** No data available
- **b) Skin corrosion / irritation:** No data available
- **c) Serious eye damage/eye irritation:** No data available
- **d) Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as a possible, probable or confirmed human carcinogen by IARC.
- **e) Reproductive toxicity:** No data available
- **f) STOT - SE:** No data available
- **g) STOT - RE:** No data available
- **h) Aspiration hazard:** No data available

**11.2 Potential health effects**

- **Ingestion:** May be harmful if swallowed.
- **Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.
- **Skin:** May be harmful if absorbed through skin. Causes skin irritation.
- **Eyes:** Causes serious eye irritation.

**11.3 Additional Information**

No additional information is available

**Section 12. ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**Section 13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

- **Product:** Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with local regulations.
- **Contaminated packaging:** Dispose of as unused product. Do not reuse empty containers.

**Section 14. TRANSPORT INFORMATION**

**14.1 UN number**

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**14.2 UN proper shipping name**

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**14.3 Transport hazard class(es)**

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**14.4 Packaging group**

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**14.5 Environmental hazards**

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Section 15. **REGULATORY INFORMATION**


15.1 **Safety, health and environmental regulations / legislation specific for the substance or mixture**

No information available

15.2 **Chemical Safety Assessment**

No information available

Section 16. **OTHER INFORMATION**

**Key to abbreviations and acronyms**

- **STOT-SE**: Specific Target Organ Toxicity - Single Exposure
- **STOT-RE**: Specific Target Organ Toxicity - Repeated Exposure
- **PBT**: Persistent Bioaccumulative and Toxic
- **vPvB**: very Persistent very Bioaccumulative and toxic
- **ADR**: European Agreement concerning the international carriage of Dangerous goods by Road
- **CAS**: Chemical Abstracts Service
- **IARC**: International Agency for Research on Cancer
- **IATA**: International Air Transport Association
- **IMDG**: International Maritime code for Dangerous Goods
- **REACH**: Registration, Evaluation, Authorization and restriction of Chemicals
- **RID**: Regulations concerning the International transport of Dangerous goods by rail