

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE

H0153

METHIONAL

PRODUCT NAME

SUPPLIER

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FOR EMERGENCIES CALL CHEMTREC:

800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

Classification of the substance or mixture



GHS07

| Skin Irrit. 2 | H315 Causes skin irritation. |
|---------------|--|
| Eye Irrit. 2A | H319 Causes serious eye irritation. |
| STOT SE 3 | H335 May cause respiratory irritation. |
| Flam. Liq. 4 | H227 Combustible liquid. |

Label elements

Harmful in contact with skin or if inhaled.

GHS label elements

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



Signal word

Warning

Hazard determining components of labeling:

3-(methylthio) propanol

Hazard statements

| H227 | Combustible liquid. | |
|------|-----------------------------------|--|
| H315 | Causes skin irritation. | |
| H319 | Causes serious eye irritation. | |
| H335 | May cause respiratory irritation. | |

Precautionary statements

| P210 | Keep away from heat/sparks/open flames/hot surfaces No smokir | |
|----------------|---|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray | |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove | |
| | contact lenses, if present and easy to do. Continue rinsing. | |
| P321 | Specific treatment (see on this label). | |
| P405 | Store locked up. | |
| P501 | Dispose of contents/container in accordance with | |
| | local/regional/national/international regulations. | |
| | | |

Classification system:

NFPA ratings (scale 0 - 4)



Health = 1 Fire = 2 Reactivity = 0

HMIS-ratings (scale 0 - 4)

| HEALTH | 1 | |
|------------|---|--|
| FIRE | 2 | |
| REACTIVITY | 0 | |

Health = 1Fire = 2 Reactivity = 0

Other hazards Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Chemical characterization: Substances CAS No.: 505-10-2

Description: 3-(methylthio) propanol

Identification number(s) EC No.: 208-004-6

4. FIRST-AID GUIDE:

Description of first aid measures After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

Information for doctor: Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. FIRE-FIGHTING GUIDE:

Extinguishing media Suitable extinguishing agents: CO2 or extinguishing powder. Fight larger fires with alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters Protective equipment: No special measures required.

Additional information

Cool endangered receptacles with water spray. Collect contaminated firefighting water separately. It must not enter the sewage system.

6. ACCIDENTAL RELEASE GUIDE:

Personal precautions, protective equipment and emergency procedures

Not required.

Environmental precautions:

No special measures required.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE:

Handling: Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s)

No further relevant information available.

8. EXPOSURE AND PERSONAL PROTECTION:

Additional information about design of technical systems: No further data; see item 7.

Control parameters Components with limit values that require monitoring at the workplace: Not required.

Additional information:

The lists that were valid during the creation were used as a basis.

Exposure controls Personal protective equipment: General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties

| General Information | |
|---------------------|--|
| Appearance: | |

| Form: | Liquid |
|--|--|
| Color: | Colorless to pale yellow |
| Odor: | Onion |
| Odour threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 89-90 °C (192-194 °F) |
| Flash point: | 91 °C (178 °F) |
| Flammability (solid, gaseous): | Not applicable. |
| Ignition temperature: | and the second sec |
| Decomposition temperature: | Not determined. |
| Auto igniting: | Not determined. |
| Danger of explosion: | Not determined. |
| Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Vapor pressure: | Not determined. |
| Density at 20 °C (68 °F): | 1.033 g/cm ³ (8.62 lbs/gal) |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| Evaporation rate | Not determined. |
| Solubility in / Miscibility with Water: | Not miscible or difficult to mix. |
| Partition coefficient (n-octanol/water): | Not determined. |
| Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| Organic solvents: | 0.0 % |
| Other information | No further relevant information available. |

10. STABILITY AND REACTIVITY:

Reactivity Chemical stability Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid

No further relevant information available.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects Acute toxicity: Primary irritant effect: On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: Carcinogenic categories IARC (International Agency for Research on Cancer) Substance is not listed.

NTP (National Toxicology Program) Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12. ECOLOGICAL INFORMATION:

Toxicity Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems: Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information: General notes: Generally, not hazardous for water.

Results of PBT and vPvB assessment PBT: Not applicable.

vPvB:

Not applicable.

Other adverse effects

No further relevant information available.

13. DISPOSAL RECOMMENDATIONS:

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION:

| UN-Number | |
|--------------------------------------|---|
| DOT, ADR, IMDG, IATA | Not regulated |
| UN proper shipping name DOT | Not regulated |
| ADR | |
| IMDG, IATA | |
| Transport hazard class(es) | Not regulated |
| DOT, ADR, IMDG, IATA | |
| Class | and a state of the second s |
| Packing group | |
| DOT, ADR, IMDG, IATA | Not regulated |
| Environmental hazards: | |
| Marine pollutant: | No |
| Special precautions for user | None |
| Transport in bulk according to Annex | |
| II of MARPOL73/78 and the IBC Code | Not applicable. |
| Transport/Additional information: | Not applicable. |
| DOT | |
| Quantity limitations | |

| ADR | Not applicable. |
|---------------------------------|-----------------|
| Excepted quantities (EQ) | |
| IMDG | Not applicable. |
| Limited quantities (LQ) | |
| Excepted quantities (EQ) | |
| UN "Model Regulation": | Not applicable. |

15. REGULATORY INFORMATION:

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is not listed.

Proposition 65

Chemicals known to cause cancer: Substance is not listed. WARNING! This product contains a chemical known to the State of California to cause cancer: Acetaldehyde CAS-no. 75-07-0

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

Carcinogenic categories

EPA (Environmental Protection Agency) Substance is not listed.

TLV (Threshold Limit Value established by ACGIH) Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.

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Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION:

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or

disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

Prepared By: M&U International LLC

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