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## SAFETY DATA SHEET

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### 1. IDENTIFICATION

#### 1.1 Product identifier

**Product Name:** Haltanol

**Product Number(s):** 40866-0

**CAS #:** 25265-77-4

#### 1.2 Recommended use of the chemical and restrictions on use

**Uses:** No data available

**Restrictions:** No data available

#### 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Johann Haltermann, Ltd.

16717 Jacintoport Blvd.

Houston, TX 77015 USA

281-452-5951

Fax: 281-457-1127

[sds@jhaltermann.com](mailto:sds@jhaltermann.com)

E-mail contact for SDS

#### 1.4 Emergency telephone number

832-376-2026

24 HR Emergency Assistance

800-424-9300

24 HR CHEMTREC

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification according to 29 CFR §1910.1200 (d)**

This material is considered to be non-hazardous according to the regulation.

#### 2.2 Label elements

**Labeling according to 29 CFR §1910.1200 (f)**

This material is considered to be non-hazardous according to the regulation.

#### 2.3 Other hazards

None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical Name	CAS #	EINECS	Amount
2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE	25265-77-4	246-771-9	100%

### 3.2 Synonyms

1,3-Pentanediol, 2,2,4-trimethyl-, monoisobutyrate; Propanoic acid, methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol; Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol; Texanol

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

IF exposed or concerned: Get medical advice/attention.

Show this this safety data sheet to the doctor in attendance.

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If symptoms occur, refer for medical attention.

#### Skin Contact

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

If symptoms occur, refer for medical attention.

#### Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If symptoms occur, refer for medical attention.

#### Ingestion

IF SWALLOWED: Rinse mouth with water and then drink 2 glasses of water.

If symptoms occur, refer for medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Acute

This material is not expected to cause adverse effects, but slight irritation to the skin, eyes, or respiratory tract may occur.

#### Delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## 5. FIRE FIGHTING MEASURES

### 5.1 Suitable Extinguishing Media

In case of fire: Use carbon dioxide, dry chemicals, foam, or water spray to extinguish.

Use water spray to cool fire exposed containers.

### Unsuitable Extinguishing Media

No data available.

### 5.2 Specific hazards arising from the chemical

Produces oxides of carbon upon combustion.

### 5.3 Special protective equipment and precautions for fire-fighters

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

### 5.4 Further information

#### NFPA Rating:

Health:	1
Flammability:	1
Reactivity:	0

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### Protective Measures

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of low area. Remove all possible sources of ignition in the surrounding area.

Personal protection: self-contained breathing apparatus in large spill.

Ventilate contaminated area thoroughly shut off leaks if possible without personal risk.

### 6.2 Environmental precautions

Use appropriate containment of product and fire fighting water to avoid environmental contamination. Prevent from spreading or entering drains, ditches, or rivers by using sand, earth, or other appropriate barriers.

Notify authorities if any exposure to the general public or environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

For large spills (> 1 drum), transfer by mechanical means such as a vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste.

For small spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal.

Absorb remaining liquid in sand or inert absorbent and remove to safe place.

## 6.4 Reference to other sections

Refer to Section 8 for personal protection advice and Section 13 for disposal information.

# 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Avoid breathing vapors or mists. Avoid contact with eyes or skin.

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

Wash thoroughly after handling.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

Store separated from strong oxidants.

Ensure that all local regulations regarding handling and storage facilities are followed.

## 7.2 Specific end use(s)

No data available.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Permissible Exposure Limits

No data available.

## 8.2 Appropriate Engineering Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Select controls based on a risk assessment of local circumstances. Appropriate measures may include the following:

Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure limits. Local exhaust ventilation is recommended.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

## 8.3 Personal Protective Equipment

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

All personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers for more information.

### Respiratory Protection

Use only with adequate ventilation. If engineering controls do not maintain airborne concentrations at a level which is adequate to protect worker health, an approved respirator should be used.

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection. Contact respirator supplier for specific recommendations.

For situations where high concentrations of vapors may be present, use an approved supplied air respirator operated in positive pressure mode.

**Hand Protection**

Where hand contact with this material may occur, use gloves that meet applicable standards. Suitable materials include: Glove (multi-layer) - Polyethylene/Ethylene-vinyl-alcohol-copolymer/Polyethylene.

Natural rubber, Polychloroprene, Nitrile rubber, Butyl rubber, Fluorocarbon rubber, and Polyvinyl chloride are not recommended for this material.

Specific glove information is provided based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending upon the specific use conditions.

Contact glove manufacturer for advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves.

**Eye Protection**

Chemical splash goggles which meet the national standards should be used when handling this material.

**Skin Protection**

Chemical resistant apron or coat and gloves should be used when handling this material.

**Specific Hygiene Measures**

Do not eat, drink, or smoke when handling this material. Wash hands thoroughly after handling.

Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

**Monitoring Methods**

Monitoring of the vapor concentrations of chemicals in the workplace may be required to confirm compliance with OEL and adequacy of exposure controls.

Sources for recommended air monitoring methods include:

USA: National Institute of Occupational Safety and Health (NIOSH): Manual of Analytical Methods, <http://www.cdc.gov/niosh/nmam/nmammenu.html>.

USA: Occupational Safety and Health Administration (OSHA): Sampling and Analytical Methods, <http://osha.gov/dts/sltc/methods/toc.html>.

**Environmental Exposure Controls**

Local guidelines for emissions limits for volatile substances must be observed for the discharge of exhaust air containing vapors.

See Sections 6, 7, 12, and 13 for more information on environmental exposure controls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

(a) Appearance	Form:	Liquid			
	Color:	Clear			
(b) Odor		No data available			
(c) Odor threshold		No data available			
(d) pH		No data available			
(e) Melting/freezing point		-50 °C	-58.0	°F	
(f) Initial boiling point and boiling range		255 - 260 °C	491 - 500	°F	
(g) Flash point		120 °C	248.0	°F	open cup
(h) Evaporation rate		No data available			
(i) Flammability (solid, gas)		No data available			
(j) Upper/lower flammability or explosive limits		0.6 - 4.2	volume % in air		
(k) Vapor pressure		<0.01	mm Hg at 20°C		
(l) Vapor density		7.5	(air = 1)		
(m) Relative density		0.95	(water = 1)		
(n) Solubility (ies)	in water	2	g/100 mL at 25°C		
(o) Partition coefficient: n-octanol/water		3.47	as Log Pow		
(p) Auto-ignition temperature		393 °C	739	°F	
(q) Decomposition temperature		No data available			
(r) Viscosity		No data available			

### 9.2 Other information

Chemical formula	$C_{12}H_{24}O_3$
Molecular weight	216.3

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical Stability

This material is stable under normal conditions of use. Hazardous polymerization will not occur.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to Avoid

Heat, sparks, open flames, and other sources of ignition. Avoid the build up of static electricity.

### 10.5 Incompatible materials

Strong oxidizing agents.

## 10.6 Hazardous Decomposition Products

In the event of fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Likely routes of exposure

Likely routes of exposure include: inhalation, eye and skin contact.

### 11.2 Signs and symptoms of exposure

No adverse effects are expected, but may cause slight irritation of the eyes, skin, and respiratory tract.

### 11.3 Delayed and immediate effects/Chronic effects from short- and long-term exposure

#### Eye

No adverse effects are expected. May cause slight eye irritation.

#### Skin

No adverse effects are expected. May cause slight skin irritation.

#### Inhalation

No adverse effects are expected. May cause slight irritation of the respiratory tract.

#### Ingestion

No adverse effects are expected.

#### Chronic effects

No data available.

#### Subchronic effects

No data available.

#### Respiratory or skin sensitization

No data available.

#### Germ cell mutagenicity

No data available.

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity - single exposure

No data available.

**Specific target organ toxicity - repeat exposure**

No data available.

**Aspiration hazard**

No data available.

**Potential health effects**

No adverse effects are expected.

**11.4 Acute Toxicity Estimates**

Compound Name	CAS #	TEST - SPECIES - RESULT
2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE	25265-77-4	Oral LD50 - Rat: 3.2 g/kg; Inhalation LC50 - Rat: >3500 mg/m3/6 hr

**11.5 Carcinogenicity**

This material is not carcinogenic according to IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), or OSHA (U.S. Occupational Health and Safety Administration).

**12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity**

Compound Name	CAS #	TEST-SPECIES-RESULTS
2,2,4-TRIMETHYL-1,3-PENTANEDIOL MONOISOBUTYRATE	25265-77-4	LC 50 - Pimephales Promelas: 30 mg/L/96 Hr; LC 50 - Daphnia Magna: >95 mg/L/96 Hr

**12.2 Persistence and Degradability**

This material is expected to biodegrade.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Other adverse effects**

No data available.



## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product disposal

Recover or recycle if possible.

It is the responsibility of the waste generator to determine the physical characteristics and toxicity of the material generated in order to properly designate the waste classification and disposal methods in compliance with applicable regulations.

Do not dispose into the environment, in drains, or allow to enter waterways. Waste product should not be allowed to contaminate soil or water.

Dispose of contents/container to in accordance with local/regional/national/international regulations.

#### Container disposal

Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed.

Empty containers should be taken for recycling, recovery, or disposal through a suitable qualified or licensed contractor and in accordance with governmental regulations.

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition as this may cause them to explode.

## 14. TRANSPORT INFORMATION

DOT: This material is not regulated for transport by the U.S. Department of Transportation.

IMDG: This material is not regulated for transport under the International Marine Dangerous Goods code.

## 15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of 29 CFR §1910.1200

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA) or are exempt from reporting.

#### FEDERAL REGULATORY LISTS:

Compound Name	CAS #	SARA 313	CERCLA	RCRA	CAA
2,2,4-TRIMETHYL-1,3-PENTANEDIOL	25265-77-4	N.L	N.L	N.L	N.L

N.L. - Not listed on regulatory list

**CALIFORNIA REGULATIONS:**

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

**PENNSYLVANIA REGULATIONS:**

To the best of our knowledge, this product does not contain any components cited on the Pennsylvania Special Hazardous Substances List, Pennsylvania Hazardous Substances List and/or the Pennsylvania Environmental Hazardous Substances List.

**16. OTHER INFORMATION**

**Reason for Issue:** This revision updates California Prop 65 status and SDS formatting according to OSHA Hazard Communications Standard (HCS) promulgated on March 20, 2012 .

**Approval date:** September 9, 2012

**Supersedes date:** January 19, 2012

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END OF MSDS

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