



SAFETY DATA SHEET

1. IDENTIFICATION

Distributed by:
SAL Chemical
3036 Birch Drive
Weirton, WV 26062
304-748-8200

1.1 Product identifier

Product Name: Hexylene Glycol
Product Number(s): 40786-1
Synonyms: 2-Methyl-2,4-pentanediol; 2,4-Dihydroxy-2-methylpentane
CAS #: 107-41-5

1.2 Recommended use of the chemical and restrictions on use

Uses: Solvent.
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 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)
Skin irritation (Category 2)
Eye irritation (Category 2)

2.2 Label elements

Labeling according to 29 CFR §1910.1200 (f)

Pictograms(s):



Signal word: **Warning**

Hazard statement(s):

Causes skin irritation.

Causes serious eye irritation.

Precautionary statement(s):

IF ON SKIN: Wash with plenty of soap and water.

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

If eye irritation persists: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

Wash thoroughly after handling.

Take off contaminated clothing and wash before reuse.

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

2.3 Other hazards **None**

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS #	EINECS	Index Number	Amount
HEXYLENE GLYCOL	107-41-5	203-489-0	603-053-00-3	100%

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.

Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

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

If skin irritation occurs: Get medical advice/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 eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Give one or two glasses of water to drink. Refer for medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Acute

The substance and the vapor is irritating to the eyes, the skin, and the respiratory tract .

Eye irritation signs and symptoms may include redness and pain.

Skin irritation signs and symptoms may include dry skin, redness, and pain.

Respiratory irritation signs and symptoms may include sore throat and cough.

Delayed

Repeated or prolonged contact with skin may cause dermatitis.

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 powder, alcohol-resistant foam, water spray, or carbon dioxide to extinguish.

Use water spray to cool fire exposed containers.

Unsuitable Extinguishing Media

No data available.

5.2 Specific hazards arising from the chemical

No data available.

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:	2
Flammability:	1
Reactivity:	0

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Protective Measures

Evacuate spill area.

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

Personal protection: see Section 8. (Extra personal protection: filter respirator for organic gases and vapors.)

6.2 Methods and material for containment and cleaning up

For spills, transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal.

Wash away spilled liquid with plenty of water

6.3 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.

6.4 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**

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

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

Do no 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 cool.

Keep container tightly closed.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Permissible Exposure Limits**

Compound Name	CAS #	Value 1	Value 2	BEI/Skin Notation
HEXYLENE GLYCOL	107-41-5	ACGIH TLV: 25 ppm	N.D.	N.D.

ACGIH: American Conference of Governmental Industrial Hygienists

TWA: Time weighted average

TLV: Threshold Limit Value

BEI: Biological Exposure Determinants

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.

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:	Colorless			
(b) Odor		Mild, sweetish			
(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		198	°C	388.4	°F
(g) Flash point		96	°C	204.8	°F
					open cup
(h) Evaporation rate		No data available			
(i) Flammability (solid, gas)		No data available			
(j) Upper/lower flammability or explosive limits		1.2 - 8.1	volume % in air		
(k) Vapor pressure		0.013	mm Hg at 25°C		
(l) Vapor density		4.1	(air = 1)		
(m) Relative density		0.92	(water = 1)		
(n) Solubility (ies) in water		Miscible			
(o) Partition coefficient: n-octanol/water		0.58	as log Pow		
(p) Auto-ignition temperature		306	°C	583	°F
(q) Decomposition temperature		No data available			
(r) Viscosity		No data available			

9.2 Other information

Chemical formula	$C_6 H_{14} O_2$
Molecular weight	118.2

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical Stability

This material is expected to be stable under normal conditions of use.

Hazardous polymerization will not occur.

10.3 Possibility of hazardous reactions

Reacts with strong oxidants and strong acids .

10.4 Conditions to Avoid

No data available

10.5 Incompatible materials

Avoid contact with strong oxidants and strong acids.

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

Eye irritation signs and symptoms may include redness and pain.

Skin irritation signs and symptoms may include dryness and redness.

Respiratory irritation signs and symptoms may include cough and sore throat.

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

Eye

Contact with eyes may cause redness and pain. Permanent damage is not expected to occur.

Skin

Contact with skin may cause dry skin and redness. Permanent damage is not expected to occur.

Inhalation

Inhalation of this material may cause cough and sore throat.

Ingestion

Ingestion of this material may be harmful.

Chronic effects

Long term or repeated exposure to this material may cause dermatitis.

Subchronic effects

This substance and vapor is irritating to the eyes, skin, and respiratory tract.

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

Irritating to the eyes, skin, and respiratory system.

11.4 Acute Toxicity Estimates

Compound Name	CAS #	TEST - SPECIES - RESULT
HEXYLENE GLYCOL	107-41-5	Oral LD50 - Rat: 3700 mg/kg; Dermal LD50 - Rabbit: 7890 mg/kg; Inhalation LC50 - Rat: >310 mg/m ³ /1 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
HEXYLENE GLYCOL	107-41-5	LC 50 - Pimephales Promelas: 10.7 g/L/96 Hr

12.2 Persistence and Degradability

This material is expected to readily biodegrade.

12.3 Bioaccumulative potential

The potential for bioconcentration of this material in aquatic organisms is low.

12.4 Mobility in soil

This material is expected to have high mobility in soil.

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
HEXYLENE GLYCOL	107-41-5	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:

The following product components are cited on the Pennsylvania Hazardous Substances List and/or the Pennsylvania Environmental Hazardous Substances List, and are present at levels which require reporting.

Compound Name	CAS #	LISTING	AMOUNT
HEXYLENE GLYCOL	107-41-5	PA RTK	100%

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

ADDITIONAL STATE REGULATIONS:

Components of this product are found on the following state lists.

Compound Name	CAS #	STATE LISTS
HEXYLENE GLYCOL	107-41-5	FL, MA, MN, NJ, WI, RI

CANADIAN REGULATIONS:

This material or all of its components are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) classification for this product is:

D2B - Eye or skin irritant.

Compound Name	CAS #	REPORTING LIMIT (%)
HEXYLENE GLYCOL	107-41-5	1.0

Refer elsewhere in the MSDS for specific warnings and safe handling information.

Refer to the employer's workplace education program.

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

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

Approval date: September 11, 2012

Supersedes date: August 18, 2011

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END OF MSDS
