

# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Material Information System (WHMIS 2015)

Revision date 14-Feb-2024 Revision Number 11

# 1. Identification

**Product identifier** 

Product Name Icynene HFO Max

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Component B of polyurethane system

Restrictions on use

Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Huntsman Building Solutions 3315 E. Division St. Arlington, TX 76011 Telephone: 817-640-4900 sds@huntsmanbuilds.com

Emergency telephone number

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300

CANUTEC 613-996-6666 or \*666 (cellular)

**Emergency Telephone** 

# 2. Hazard(s) identification

Classification

Acute toxicity - Oral Category 4

Appearance Liquid Physical state Liquid Odor

Label elements

Warning

Hazard statements

Harmful if swallowed



## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

**Precautionary Statements - Response** 

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

## **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant

## Other information

No information available.

Unknown acute toxicity

# 3. Composition/information on ingredients

#### Substance

Not applicable.

## <u>Mixture</u>

Chemical name	CAS No	Weight-%	Information Review	Date HMIRA filed and date exemption granted (if applicable)
Triethyl phosphate	78-40-0	0.75 - 4.3	-	-
Glyceryl polypropylene glycol triether	25791-96-2	0.25 - 3.5	-	-
Ethylene glycol	107-21-1	0.05 - 3.25	-	-

## 4. First-aid measures

## Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a physician.

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

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

5. Fire-fighting measures

surrounding environment.

**Large Fire**CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

# 8. Exposure controls/personal protection

Control parameters
Exposure Limits

**ACGIH TLV OSHA PEL** NIOSH Chemical name STEL: 50 ppm vapor fraction Ethylene glycol 107-21-1 STEL: 10 mg/m3 inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction Chemical name Alberta British Columbia Ontario Quebec Ethylene glycol Ceiling: 100 mg/m<sup>3</sup> TWA: 10 mg/m<sup>3</sup> TWA: 25 ppm Ceiling: 50 ppm 107-21-1 STEL: 20 mg/m<sup>3</sup> STEL: 50 ppm Ceiling: 127 mg/m<sup>3</sup>

## RM00289 - Icynene HFO Max

	Ceiling: 100 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup>	
	Ceiling: 50 ppm	-	

## **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Avoid contact with skin, eyes or clothing.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Color blue

Odor

Odor threshold

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pHNo data availableNone knownMelting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone known

Flash point > 93.3 °C / 199.9 °F Pensky-Martens Closed Cup (PMCC)

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available None known Vapor pressure None known No data available Relative vapor density 1.17 - 1.21 None known Relative density No data available None known Water solubility Solubility in other solvents No data available None known No data available **Partition coefficient** None known **Autoignition temperature** No data available None known **Decomposition temperature** None known

Kinematic viscosity

No data available

None known
None known
None known

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Dynamic viscosity No data available

Other information

Explosive propertiesNo information availableOxidizing propertiesNo information availableVOC Content (%)No information available

# 10. Stability and reactivity

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available. Harmful if swallowed. (based

on components).

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**Acute toxicity** 

**Numerical measures of toxicity** 

No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,085.90 mg/kg
ATEmix (dermal) 6,561.50 mg/kg
ATEmix (inhalation-dust/mist) 11.80 mg/l

## Unknown acute toxicity

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Triethyl phosphate 78-40-0	1100 - 1600 mg/kg (Rat)	> 20 g/kg(Rabbit)	> 8817 mg/m³(Rat)4 h
Glyceryl polypropylene glycol triether	= 2830 µL/kg (Rat)	> 2000 mg/kg (Rat)	-
25791-96-2	> 64 mL/kg (Rat)		
Ethylene glycol 107-21-1	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat) 6 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

# 12. Ecological information

# **Ecotoxicity**

Chemical na	ame	Algae/aquatic plants	Fish	Toxicity to	Crustacea
				microorganisms	
Ethylene gl	ycol	EC50: 6500 - 13000mg/L	LC50: =41000mg/L (96h,	-	EC50: =46300mg/L (48h,
107-21-	1	(96h, Pseudokirchneriella	Oncorhynchus mykiss)		Daphnia magna)
		subcapitata)	LC50: 14 - 18mL/L (96h,		_
			Oncorhynchus mykiss)		
			LC50: =27540mg/L (96h,		
			Lepomis macrochirus)		
			LC50: =40761mg/L (96h,		
			Oncorhynchus mykiss)		
			LC50: 40000 - 60000mg/L		
			(96h, Pimephales		
			promelas)		
			LC50: =16000mg/L (96h,		
			Poecilia reticulata)		

## Persistence and degradability

**Bioaccumulation** No information available.

**Component Information** 

	on period in emicrimation		
Chemical name		Partition coefficient	
Triethyl phosphate 78-40-0		1.11	
	Ethylene glycol 107-21-1	-1.36	

Mobility in soil

No information available.

# 13. Disposal considerations

Waste treatment methods

Other adverse effects

Waste from residues/unused

products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

Do not reuse empty containers. Contaminated packaging

# 14. Transport information

DOT Not regulated

# 15. Regulatory information

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

## **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories** 

Compies **TSCA DSL/NDSL** Complies

**EINECS/ELINCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **ENCS IECSC** Contact supplier for inventory compliance status **KECL** Contact supplier for inventory compliance status **PICCS** Contact supplier for inventory compliance status **AICS** Contact supplier for inventory compliance status

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## **US Federal Regulations**

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#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Ethylene glycol - 107-21-1	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Ethylene glycol 107-21-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

## **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65	
Ethylene glycol - 107-21-1	Developmental	

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol 107-21-1	X	X	Х
Water 7732-18-5	-	-	Х

#### U.S. EPA Label Information

## EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA Health hazards 1 Flammability 2 Instability 0 Special hazards - HMIS Health hazards 1 Flammability 2 Physical hazards 0 Personal protection X

## Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

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Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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## **Revision Note**

## **Disclaimer**

The information provided in this 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.

**End of Safety Data Sheet**