

# **SAFETY DATA SHEET**

Creation Date 08-Jan-2008 Revision Date 25-Mar-2024 Revision Number 3

1. Identification

Product Name Sodium hydride, 57-63% oil dispersion

Cat No. : \$55313

Synonyms No information available

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

### Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757

# **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

# Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Substances/mixtures which, in contact with water, emit Category 1

flammable gases

#### Label Elements

# Signal Word

Danger

## **Hazard Statements**

In contact with water releases flammable gases which may ignite spontaneously



### **Precautionary Statements**

#### Prevention

Keep away from any possible contact with water, because of violent reaction and possible flash fire

Handle under inert gas. Protect from moisture

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

#### Skin

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

**Storage** 

Store in a dry place. Store in a closed container

**Disposal** 

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Sodium hydride	7646-69-7	60
White mineral oil	8042-47-5	40

### 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Dry sand.

Unsuitable Extinguishing Media DO NOT USE WATER, FOAM OR CO2

**Flash Point** 165 °C / 329 °F

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

### Specific Hazards Arising from the Chemical

Water reactive. Contact with water liberates extremely flammable gases. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Hydrogen.

### **Protective Equipment and Precautions for Firefighters**

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

NFPA

Health Flammability Instability Physical hazards
0 3 2 W

### 6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust

formation.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed

Up

containers for disposal.

# 7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

Storage. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from

moisture. Keep from any possible contact with water. Store under an inert atmosphere.

Incompatible Materials. Acids. Strong oxidizing agents. Alcohols. Water.

# 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers

are close to the workstation location.

Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

> EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Particulates filter conforming to EN 143. **Recommended Filter type:** 

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# Physical and chemical properties

Powder Solid **Physical State** Light grey **Appearance** Odor Odorless

**Odor Threshold** No information available No information available pН Melting Point/Range 800 °C / 1472 °F

**Boiling Point/Range** No information available Flash Point 165 °C / 329 °F **Evaporation Rate** Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** No information available

Vapor Density Not applicable

**Specific Gravity** No information available Solubility Reacts with water Partition coefficient; n-octanol/water No data available **Autoignition Temperature** No information available

**Decomposition Temperature** 

**Viscosity** Not applicable Molecular Formula H Na

**Molecular Weight** 24

# 10. Stability and reactivity

> 225°C

Yes **Reactive Hazard** 

Water reactive. Moisture sensitive. Stability

**Conditions to Avoid** Incompatible products. Exposure to moist air or water. Keep away from open flames, hot

surfaces and sources of ignition.

**Incompatible Materials** Acids, Strong oxidizing agents, Alcohols, Water

Hazardous Decomposition Products Hydrogen

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. **Dermal LD50** Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l. Mist LC50

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
White mineral oil	>5000 mg/kg (Rat)	>3000 mg/kg (Rabbit)	Not listed

**Toxicologically Synergistic** 

No information available

**Products** 

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

Irritation No information available

**Sensitization** No information available

**Carcinogenicity**The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium hydride	7646-69-7	Not listed				
White mineral oil	8042-47-5	Not listed				

Mutagenic Effects

No information available

Reproductive Effects No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

### **Ecotoxicity**

This product contains the following substance(s) which are hazardous for the environment. Reacts with water so no ecotoxicity data for the substance is available.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
White mineral oil	Not listed	LC50: > 10000 mg/L, 96h (Lepomis macrochirus)	Not listed	Not listed

Persistence and Degradability

Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** 

No information available.

**Mobility** 

. Is not likely mobile in the environment.

Component	log Pow
White mineral oil	6

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

UN-No UN1427

Proper Shipping Name SODIUM HYDRIDE

Hazard Class 4.3 Packing Group

TDG

UN-No UN1427

Proper Shipping Name SODIUM HYDRIDE

Hazard Class 4.3 Packing Group

IATA

UN-No UN1427

Proper Shipping Name SODIUM HYDRIDE

Hazard Class 4.3 Packing Group

IMDG/IMO

UN-No UN1427

Proper Shipping Name SODIUM HYDRIDE

Hazard Class 4.3 Packing Group

# 15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Sodium hydride	7646-69-7	Χ	ACTIVE	-
White mineral oil	8042-47-5	X	ACTIVE	-

#### Leaend

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

## International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium hydride	7646-69-7	Χ	-	231-587-3	Χ	Χ	Χ	Χ	Χ	KE-31467
White mineral oil	8042-47-5	Χ	-	232-455-8	Χ	Χ	Χ	Х	Х	KE-35412

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

# U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

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

# Sodium hydride, 57-63% oil dispersion

**CWA (Clean Water Act)** Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Not applicable

Health Administration

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know

# Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydride	X	X	X	-	X

### **U.S. Department of Transportation**

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν **DOT Severe Marine Pollutant** Ν

U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade No information available

### Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium hydride	7646-69-7	-	-	-
White mineral oil	8042-47-5	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Sodium hydride	7646-69-7	Listed	Not applicable	Not applicable	Not applicable
White mineral oil	8042-47-5	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

Component	CAS No	Qualifying Quantities for Major Accident Notification  Qualifying Quantities for Safety Report Requirements		Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Sodium hydride	7646-69-7	Not applicable	Not applicable	Not applicable	Not applicable
White mineral oil	8042-47-5	Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

Prepared By Health, Safety and Environmental Department

Email: chem.techinfo@thermofisher.com

www.thermofisher.com

 Creation Date
 08-Jan-2008

 Revision Date
 25-Mar-2024

 Print Date
 25-Mar-2024

**Revision Summary** New emergency telephone response service provider.

#### **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 SDS**