

Safety Data Sheet per OSHA HazCom 2012

Page 1/5 Printing date 11/23/2015 Reviewed on 04/09/2013

1 Identification

Product identifier

Product name: Sodium isopropoxide

Stock number: 89446

CAS Number: 683-60-3

EC number: 211-673-7

Relevant identified uses of the substance or mixture and uses advised against.

Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet

Details of the supplier of the safety da Manufacturer/Supplier:
Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757

Email: tech@alfa.com www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number:
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)



GHS02 Flame

Flam. Sol. 2 H228 Flammable solid.

Self-heat. 1 H251 Self-heating: may catch fire.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. **Hazards not otherwise classified** No information known.

GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms





GHS02 GHS05

Signal word Danger

Signal word Danger
Hazard statements
H228 Flammable solid.
H251 Self-heating: may catch fire.
H314 Causes severe skin burns and eye damage.

Precautionary statements

Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/...
P370+P378 In case of fire: Use for extinction: Fire-extinguishing powder.
P402+P404 Store in a dry place. Store in a closed container.
WHMIS: Classification

WHMIS classification

B6 - Reactive flammable material
D2B - Toxic material causing other toxic effects

E - Corrosive material



Classification system Chassinication system
HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)



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

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 683-60-3 Sodium isopropoxide

Identification number(s): EC number: 211-673-7

HSA

Product name: Sodium isopropoxide

(Contd. of page 1)

4 First-aid measures

Description of first aid measures General information Immediately remove any clothing soiled by the product.

After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact
Immediate with water and seep and rippe thereughly.

Arter Skin contact: Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

Seek Immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed

Causes severe skin burns.

Causes serious eye damage.

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

5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
For safety reasons unsuitable extinguishing agents Water
Special hazards arising from the substance or mixture

Reacts violently with water If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide

Sodium oxide

Advice for firefighters

Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up:
Use neutralizing agent.
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Prevention of secondary hazards: Keep away from ignition sources.
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
Handle under dry protective gas.
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.
Information about protection against explosions and fires: Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility:
Store away from air.
Store away from water/moisture.
Store away from strong bases.
Store away from oxidizing agents.
Further information about storage conditions:

Store under dry inert gas. This product is moisture sensitive.

This product is air sensitive.
This product is air sensitive.
Protect from humidity and water.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: No data

Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Maintain an ergonomically appropriate working environment.

(Contd. on page 3)

Product name: Sodium isopropoxide

Breathing equipment: Use suitable respirator when high concentrations are present. **Protection of hands:**

Crystalline Yellow Not determined Not determined.

Not applicable.

70-75 °C (158-167 °F) Not determined Not determined

Highly flammable. Not determined Not determined

Not determined

Not determined. Not determined Not determined Not applicable. Not determined Not determined.

Not applicable. Not applicable.

Reacts violently

(Contd. of page 2)

Protection of names:
Impervious gloves
Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

Penetration time of glove material (in minutes) Not determined

Eye protection:
Tightly sealed goggles
Full face protection

Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information Appearance: Form:

Color: Odor: Odor threshold:

pH-value:

Change in condition
Melting point/Melting range:
Boiling point/Boiling range:
Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:

Auto igniting:

Danger of explosion:
Explosion limits:
Lower:
Upper:
Vapor pressure:
Density:
Relative density Vapor density Evaporation rate Solubility in / Miscibility with

Water: Partition coefficient (n-octanol/water): Not determined. Viscosity

dynamic: kinematic: Other information

Not applicable. Not applicable.

No further relevant information available.

10 Stability and reactivity

Reactivity Reacts violently with water.
Chemical stability Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions
Reacts with strong oxidizing agents
Reacts violently with water
Conditions to avoid No further relevant information available.
Incompatible materials:
Air

Bases

Dases: Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Sodium oxide

11 Toxicological information

Information on toxicological effects

Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data

LD/LC50 values that are relevant for classification: No data
Skin irritation or corrosion: Causes severe skin burns.
Eye irritation or corrosion: Causes serious eye damage.
Sensitization: No sensitizing effects known.
Germ cell mutagenicity: No effects known.
Germ cell mutagenicity: No effects known.
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: No effects known.
Specific target organ system toxicity - repeated exposure: No effects known.
Specific target organ system toxicity - single exposure: No effects known.
Aspiration hazard: No effects known.
Subacute to chronic toxicity: No effects known.
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12 Ecological information

Aquatic toxicity: No further relevant information available.

Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Additional ecological information:
General notes:
Do not allow material to be released to the environment without proper governmental permits.
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.

(Contd. on page 4)

(Contd. of page 3)

Product name: Sodium isopropoxide

Avoid transfer into the environment.
Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation Consult state, local or national regulations to ensure proper disposal.
Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

			•								-		-
nı	atı	rm	tn	ın	rt	റ	n	18	m	ra	•	4	7

UN-Number DOT, IMDG, IATA	UN3206
UN proper shipping name DOT IMDG, IATA	Alkali metal alcoholates, self-heating, corrosive, n.o.s. (Sodium isopropoxide) ALKALI METAL ALCOHOLATES, SELF-HEATING, CORROSIVE, N.O.S. (Sodium

isopropoxide)

Transport hazard class(es)

DOT





Class Label Class Label IMDG, IATA





Class 4.2 Substances liable to spontaneous combustion. 4.2+8 Label

Packing group DOT, IMDG, IATA

Not applicable. Environmental hazards:

Special precautions for user Warning: Substances liable to spontaneous combustion

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

DOT

Marine Pollutant (DOT):

UN "Model Regulation":

UN3206, Alkali metal alcoholates, self-heating, corrosive, n.o.s. (Sodium isopropoxide), 4.2 (8), Il

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms





GHS02 GHS05

Signal word Danger

Hazard statements
H228 Flammable solid.
H251 Self-heating: may catch fire.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P402+P404 Store in a dry place. Store in a closed container.

National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).

SARA Section 313 (specific toxic chemical listings) Substance is not listed.

California Proposition 65

Prop 65 - Chemicals known to cause cancer Substance is not listed.

Prop 65 - Developmental toxicity Substance is not listed.

Prop 65 - Developmental toxicity, female Substance is not listed.

Prop 65 - Developmental toxicity, male Substance is not listed.

Information about limitation of use: For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

(Contd. on page 5)

Product name: Sodium isopropoxide

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. of page 4)

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement conceming the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods by Road) IMDG: International Maritime Code Goods DOT: US Department of Transport Association
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LP50: Lethal concentration, 50 percent
LP50: Lethal dose, 50 percent
LP50: Lethal concentration, 50 percent
LP50: Lethal concentration, 50 percent
LP50: Lethal dose, 50 percent
LP50: LP50: