



SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

Revision number: 2

Revision date: 03/05/2014

1. IDENTIFICATION

Identification of the substance or preparation

Product name: Sodium Hydride (60%, dispersion in Paraffin Liquid)
Product code: S0481

Use of the substance/preparation

Recommended use: Reagents

Company/undertaking identification

TCI Chemicals (India) Pvt. Ltd.
Plot No. B-28, Phase II,
5th Cross Street, MEPZ-SEZ, Tambaram,
Chennai, Tamilnadu - 600045
India
Telephone: +91-44-2262 0909

Emergency telephone number:

+91-44-2262 0909

2. HAZARDS IDENTIFICATION

Indication of danger:

R-phrases) Xi - Irritant
R15 - Contact with water liberates extremely flammable gases.
R36/37/38 - Irritating to eyes, respiratory system and skin.

GHS classification

PHYSICAL HAZARDS

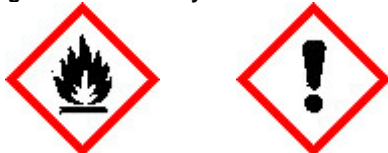
Substances and mixtures which, in contact with water, emit flammable gases Category 1

HEALTH HAZARDS

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2
ENVIRONMENTAL HAZARDS Not classified

GHS label elements, including precautionary statements

Pictograms or hazard symbols



Signal word

Hazard statements

Danger

H260-In contact with water releases flammable gases which may ignite spontaneously.
H315-Causes skin irritation.
H319-Causes serious eye irritation.

Precautionary statements

[Prevention]

P223-Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231+P232-Handle under inert gas. Protect from moisture.
P264-Wash hands thoroughly after handling.

[Response]

P280-Wear protective gloves/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.

[Storage]

[Disposal]

P337+P313-If eye irritation persists: Get medical advice/attention.
P302+P352-IF ON SKIN: Wash with plenty of soap and water.
P332+P313-If skin irritation occurs: Get medical advice/attention.
P362-Take off contaminated clothing and wash before reuse.
P370+P378-In case of fire: Do not use water for extinction.
P402+P404-Store in a dry place. Store in a closed container.
P501-Dispose of contents/container through a waste management company authorized by the local government

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

S0481

**Sodium Hydride (60%, dispersion
in Paraffin Liquid)**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components:	Sodium Hydride (60%, dispersion in Paraffin Liquid)
Percent:
CAS Number:	7646-69-7
EC-No:	231-587-3
Chemical Formula:	NaH

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	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:	Get medical advice/attention if you feel unwell. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, dry sand.
Unsuitable extinguishing media:	Water
Specific hazards arising from the chemical:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
Precautions for firefighters:	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.
Special protective equipment for firefighters:	When extinguishing fire, be sure to wear personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for containment and cleaning up:	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
Prevention of secondary hazards:	Do not allow contact with water. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment. Since there is a possibility of igniting behind when removal of a leakage thing is imperfect, it is careful enough.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated.
Advice on safe handling:	Avoid contact with skin, eyes and clothing. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Use well-dried equipment. Handle under inert gas. Don't leave used equipment or rag. This product may ignite if it is left stuck on combustibles such as paper, rags, etc.

Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store away from incompatible materials such as oxidizing agents.
Packaging material:	Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid
Form:	Crystal- Powder
Colour:	White - Bluish gray
Odour:	No data available
pH:	No data available
Melting point/freezing point:	No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling point/range:	No data available
Flash point:	No data available (Calculated value:>60°C)
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Relative density:	No data available
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	May spontaneously ignite or release flammable gases when in contact with water.
Conditions to avoid:	Moisture
Incompatible materials:	Oxidizing agents, Acids, Water, Alcohols, Carbon dioxide
Hazardous decomposition products:	Hydrogen gas , Sodium hydroxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	
Skin corrosion/irritation:	
Serious eye damage/irritation:	
Germ cell mutagenicity:	
Carcinogenicity:	
Reproductive toxicity:	
RTECS Number:	WB3910000

*We judged that this product was not classified into Class 6.1 Toxic Substance of current edition of IATA Dangerous Goods Regulations (DGR) according to acute toxicity values and/or Quantitative Structure-Activity Relationship (QSAR).

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential (BCF):	No data available
Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law constant (PaM ³ /mol):	No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. Take precautions against ignition. Observe all federal, state and local regulations when disposing of the substance

14. TRANSPORT INFORMATION

UN-No:	1427
ADR/RID	
Hazards Class:	4.3: Substance which, in contact with water, emit flammable gases.
Proper shipping name:	Sodium hydride
Packing group:	I
IMDG/IMO	
Hazards Class:	4.3: Substance which, in contact with water, emit flammable gases.
Proper shipping name:	Sodium hydride
Packing group:	I
ICAO/IATA	
Hazards Class:	4.3: Substance which, in contact with water, emit flammable gases.
Proper shipping name:	Sodium hydride
Packing group:	I

15. REGULATORY INFORMATION

Indication of danger:	
Xi - Irritant	
In accordance with local and national regulations	
R-phrase(s)	R15 - Contact with water liberates extremely flammable gases. R36/37/38 - Irritating to eyes, respiratory system and skin.

15. REGULATORY INFORMATION

S-phrase(s) S43 - In case of fire, Do not use water for extinction (see Section5).
S7/8 - Keep container tightly closed and dry.
S24/25 - Avoid contact with skin and eyes.

16. OTHER INFORMATION

Prepared by: TCI Chemicals (India) Pvt. Ltd.
Issue date: 03/05/2014

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.