

Manufacturers of Sodium Amide, Sodium Alkoxides, Sodium Hydride, Sodium Azide, Tetrazoles, Amino Pyridines, Pyridine Derivatives, Cyclic Compounds, Fine Chemicals, Oleo Chemicals & Oleoresins

ALKALI METALS LTD.,	Material Safety Data Sheet
Product	Sodium Amide

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Sodium Amide,

Company Identification:

Alkali Metals Ltd.,

Plot B-5, Block III, IDA Uppal, Hyderabad –500 039. INDIA Tel :- 0091 40 27563002 / 2720 1179

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	CHEMICAL NAME	%	EINECS #
7782-92-5	Sodium Amide	95	231-971-0

Hazard Symbols: F C Risk

Phrases: 14/15 19 34

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: gray-white. Flash Point: 29 deg C. Danger! Flammable solid. Corrosive. Air sensitive. Causes eye and skin burns. Dangerous when wet. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns. Target Organs: None.

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns.

Ingestion: May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns.

Inhalation: Causes chemical burns to the respiratory tract.

Chronic: No information found.

SECTION 4 - FIRST AID MEASURES

Eyes: Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed. extensive irrigation is required (at least 30 minutes).

Skin: Get medical aid immediately. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure- demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water Reactive. Material will react with water and may release a flammable and/or toxic gas. Containers may explode in the heat of a fire. May form explosive peroxides. Flammable solid. May re- ignite after fire is extinguished.

Extinguishing Media: Do NOT use water directly on fire. Do NOT get water inside containers. For small fires use dry chemical, soda ash, lime or sand. For large fires use dry sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.

Autoignition Temperature: 450 deg C (842.00 deg F) Flash Point: 29 deg C (84.20 deg F) NFPA

Rating: Not published.

Explosion Limits, Lower: N/A, **Upper:** N/A

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Remove all sources of ignition Use a spark-proof tool. Provide ventilation. Use water spray to reduce vapors, do not put water directly on leak, spill area or inside container.

SECTION 7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not get on skin or in eyes. Avoid ingestion and inhalation. Use with adequate ventilation. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill,grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep container closed when not in use. Keep away from water. Flammables-area.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA – Final PELs
Sodium Amide	None listed	None listed	None listed

OSHA Vacated PELs: Sodium amide: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Crystalline powder
Appearance	:	gray-white
Odor	:	ammonia-like
PH	:	Not available.
Vapor Pressure	:	Not available.
Vapor Density	:	Not available.
Evaporation Rate	:	Not available.
Viscosity	:	Not available.
Boiling Point	:	400 deg C
Freezing/Melting Point	:	210 deg C
Decomposition Temperature	:	> 330 deg C
Solubility	:	reacts very violently, even explosively,
Specific Gravity/Density	:	1.39 @ 20C
Molecular Formula	:	H ₂ NNa
Molecular Weight	:	39.00

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, exposure to air, contact with water, acids, excess heat, strong oxidants, bases.

Incompatibilities with Other Materials: Acids (mineral, oxidizing, e.g. chromic acid, hypochlorous acid, nitric acid, sulfuric acid), oxidizing agents, sodium nitrite.

Hazardous Decomposition Products: Irritating and toxic fumes and gases, ammonia and/or derivatives, sodium peroxide fumes.

Hazardous Polymerization: Has not been reported

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 7782-92-5 unlisted.

LD50/LC50: Not available.

Carcinogenicity: Sodium amide - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology	:	No data available.
Teratogenicity	:	No data available.
Reproductive Effects	:	No data available.
Neurotoxicity	:	No data available.
Mutagenicity	:	No data available.
Other Studies	:	No data available.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	:	Not available.
Environmental Fate:		Not available.
Physical/Chemical :		Not available.
Other	:	Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations. RCRA D-Series Maximum Concentration of Contaminants:None listed.

RCRA D-Series Chronic Toxicity Reference Levels: None listed.

RCRA F-Series: None listed.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Not listed as a material banned from land disposal according to RCRA.

SECTION 14 - TRANSPORT INFORMATION

US DOT

Shipping Name : ALKALI METAL AMIDES
Hazard Class : 4.3
UN Number : UN1390
Packing Group : II

IMO

Shipping Name : ALKALI METAL AMIDES
Hazard Class : 4.3
UN Number : 1390
Packing Group : II

IATA

Shipping Name : ALKALI METAL AMIDES
Hazard Class : 4.3
UN Number : 1390
Packing Group : II

RID/ADR

Shipping Name : ALKALI METAL AMIDES
Dangerous Goods Code : 4.3(19B)
UN Number : 1390

Canadian TDG

Shipping Name : ALKALI METAL AMIDES NOS (SODIUM AMIDE)
Hazard Class : 4.3
UN Number : UN1390

SECTION 15 - REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 7782-92-5 is listed on the TSCA inventory.

Health & Safety Reporting List : None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules : None of the chemicals in this product are under a Chemical Test Rule.

Section 12b : None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule : None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ) : None of the chemicals in this material have an RQ.

Section 302 (TPQ) : None of the chemicals in this product have a TPQ.

Section 313 : No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA. STATE

Sodium amide can be found on the following state right to know lists: New Jersey. California

No Significant Risk Level: None of the chemicals in this product are listed. European/International

Regulations : European Labeling in Accordance with EC Directives Hazard Symbols: F C

Risk Phrases: R 14/15 Reacts violently with water liberating highly flammable gases. R 19 May form explosive peroxides. R 34 Causes burns.

Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37 Wear suitable protective clothing and gloves. S 7/8 Keep container tightly closed and dry. S 43D In case of fire, use sodium carbonate or dry sand (never use water).

WGK (Water Danger/Protection) CAS# 7782-92-5: 2

Canada

CAS# 7782-92-5 is listed on Canada's DSL/NDSL List. This product does not have a WHMIS classification.

CAS# 7782-92-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Alkali Metals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Alkali Metals has been advised of the possibility of such damages. MSDS Creation

Date: 15/05/2000

