	ODUCT and COMPANY IDENTIFICATION	Catalog No L13969
Product Name:	Sodium aluminium hydride, 90%	
Manufacturer/Supplier Name:	Alfa Aesar - A Johnson Matthey Company	
Product Description:	Technical Grade	
Address:	30 Bond St.	
	Ward Hill, MA 01835	
Business Phone:	978-521-6300	
Business Fax:	978-521-6350	
For information		
in North America, call:	978-521-6300	
CHEMTREC Numbers:		
For Nonemergency, call	: (800)262-8200	To Top of page
	: (800)262-8200 N, INFORMATION ON INGREDIENTS	
SECTION 2 : COMPOSITIO	N, INFORMATION ON INGREDIENTS Sodium aluminium hydride	
SECTION 2 : COMPOSITIO Chemical Name CAS#	N, INFORMATION ON INGREDIENTS Sodium aluminium hydride 13770-96-2	<u>To Top of page</u> Catalog No. L13969 <u>To Top of page</u>
SECTION 2 : COMPOSITIO Chemical Name CAS#	N, INFORMATION ON INGREDIENTS Sodium aluminium hydride 13770-96-2 90	Catalog No. L1396
SECTION 2 : COMPOSITIO Chemical Name CAS# % Weight (Typical)	N, INFORMATION ON INGREDIENTS Sodium aluminium hydride 13770-96-2 90	Catalog No. L1396
SECTION 2 : COMPOSITIO Chemical Name CAS# % Weight (Typical) SECTION 3 : HAZARDS ID	N, INFORMATION ON INGREDIENTS Sodium aluminium hydride 13770-96-2 90 ENTIFICATION Corrosive. Water reactive.	Catalog No. L1396
SECTION 2 : COMPOSITIO Chemical Name CAS# % Weight (Typical) SECTION 3 : HAZARDS ID Emergency Overview:	N, INFORMATION ON INGREDIENTS Sodium aluminium hydride 13770-96-2 90 ENTIFICATION Corrosive. Water reactive.	Catalog No. L1396
SECTION 2 : COMPOSITIO Chemical Name CAS# % Weight (Typical) SECTION 3 : HAZARDS ID Emergency Overview: Sodium aluminium hydride:	N, INFORMATION ON INGREDIENTS Sodium aluminium hydride 13770-96-2 90 ENTIFICATION Corrosive. Water reactive.	Catalog No. L1396
SECTION 2 : COMPOSITIO Chemical Name CAS# % Weight (Typical) SECTION 3 : HAZARDS ID Emergency Overview: Sodium aluminium hydride: Route of Exposure:	N, INFORMATION ON INGREDIENTS Sodium aluminium hydride 13770-96-2 90 ENTIFICATION Corrosive. Water reactive.	Catalog No. L1396

Corrosive causes skin burns and severe irritation.

Eyes. Skin. Respiratory system. G.I. Tract.

Corrosive. Dust is strongly irritating and destructive to the respiratory

Will react immediately with moisture, with evolution of heat, liberation of extremely flammable hydrogen gas and formation of corrosive products. Serious risk of severe thermal and chemical burns if ingested.

Skin Contact: Inhalation:

tract.

Ingestion:

Target Organs:

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SECTION 4 : FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 20 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention if irritation persists, or symptoms of overexposure become apparent.
Skin Contact:	Immediately wash skin with plenty of water for at least 20 minutes, while removing contaminated clothing and shoes. Get medical attention especially, if irritation develops, persists, or symptoms of overexposure become apparent.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Keep warm. Get immediate medical attention.
Ingestion:	If swallowed, call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed by medical personnel. Get medical attention.

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SECTION 5 : FIRE FIGHTING MEASURES		Catalog No. L13969
Fire:	Flammable, solid.	
Flash Point:	No data	
Extinguishing Media:	Use dry powder when fighting a fire involving t combination with other materials.	this material, alone or in
Unsuitable Media:	Water or carbon dioxide extinguishers are not	recommended.
Protective Equipment:	As in any fire, wear self-contained breathing an NIOSH (approved or equivalent) and full prote	

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Personal Precautions: Spill Cleanup Measures:	Use proper personal protective equipment as listed in section 8. Cover with dry sand or other dry, inert material, collect spillage, avoiding introduction of moisture or dust cloud formation. Transfer to a dry container and keep tightly closed, preferably under nitrogen, pending disposal. See section 13.
Environmental Precautions:	Do not allow material to enter drains or streams.

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Handling:	This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data. It should always be handled in an efficient fume hood or equivalent system. The user should consider that the toxicological and physiological properties of many compounds are not yet well determined and that new hazardous products may arise from reactions between chemicals. Care should be taken to prevent any chemical from coming into contact with the skin or eyes and from contaminating personal clothing.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use. Product is moisture sensitive.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling dust.
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SECTION 6 : ACCIDENTAL RELEASE MEASURES

SECTION 7 : HANDLING and STORAGE

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Skin Protection Description:	Wear suitable protective clothing to prevent contact with skin.
Hand Protection Description:	Wear appropriate protective gloves. Consult glove manufacturers for glove permeability data.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited to airborne concentrations that are typically within 10 times the exposure limit. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHAs 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirators use.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Physical State/Appearance:	Solid
Color:	Grey
Flash Point:	No data
Boiling Point:	No data
Melting Point:	183°C (361.4°F) (Ref:SAX)
Solubility in Water:	Reacts
Density:	No data
Molecular Formula:	H ₄ AlNa
Molecular Weight:	54.00

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SECTION 10 : STABILITY and REACTIVITY

Conditions to Avoid:	High temperatures: may decompose above 100°C. Flames and sparks. Humidity.
Incompatibilities with Other Materials:	Oxidizing agents. Carbon dioxide. Acids. Hydrogen halides. Alcohols. Water.
Possible Decomposition Product:	Sodium oxide. Reactivity and handling: Reacts violently with water and other proton sources, liberating extremely flammable hydrogen gas. High risk of fire in the presence of moisture. Always handle under dry nitrogen or argon.

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SECTION 11 : TOXICOLOGICAL INFORMATION

Sodium aluminium hydi	ride :
RTECS Number:	BD0180000
Eye Effect:	No data reported in the cited references as of the revision date.
Skin Effects:	No data reported in the cited references as of the revision date.
Ingestion Effects:	Oral - mouse LD50: 740 mg/kg [Gastrointestinal - ulceration or bleeding from duodenum Gastrointestinal - hypermotility, diarrhea Nutritional and Gross Metabolic - weight loss or decreased weight gain] (RTECS)
Inhalation Effects:	No data reported in the cited references as of the revision date.
Other Toxicological Information:	Intraperitoneal - mouse LD50: 9 mg/kg

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SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No information provided.
Bioaccumulation:	No information provided.
Biodegredation:	No information provided.
Environmental Stability:	No information provided.

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SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines, by a licensed disposal company.

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SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Sodium aluminum hydride
DOT Hazard Class:	4.3
DOT Identification Number:	UN2835
DOT Packing Group:	II
DOT Subpart E Labeling	4.3
Requirement:	

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SECTION 15 : REGULATORY INFORMATION

Sodium aluminium hydride :		
TSCA 8(b): Inventory Status:	Listed on the TSCA inventory.	
Risk Phrases:	R11 Highly flammable. R14/15 Reacts violently with water, liberating extremely flammable gases. R34 Causes burns.	
Safety Phrase:	 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S43 In case of fire, use S45 In case of accident or if you feel unwell, seek medical advice immediately 	

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SECTION 16 : ADDITIONAL INFORMATION

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MSDS Preparation Date:	January 1, 2002, Version 1
MSDS Revision Date:	April 14, 2003.

MSDS Author: Actio Corporation.

Disclaimer:

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet. We welcome any additional information about our products that customers have obtained by personal experience.

References:

- 1. American Chemical Society, STN Easy Online Database
- 2. Brethericks Reactive Chemical Hazards Database. Version 2.
- 3. Gassarett and Doulls Toxicology, The Basic Science of Poisons.
- 4. Hawleys Condensed Chemical Dictionary, Thirteenth Edition
- 5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International Research on Cancer.
- 6. Industrial Hygiene and Toxicology, by F.A. Patty.
- 7. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data Bank (HSDB).
- 8. National Toxicology Program (NTP) Eighth Report on Carcinogens, 1997.
- 9. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical Hazards.
- 10. OSHA Hazard Communication Standard, 1910.1200 and Z Tables.
- 11. Sax Dangerous Properties of Industrial Materials. Tenth Edition.
- 12. The Merck Index: An Encyclopedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998.
- 13. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environmental and Biological Exposure Indices. TLV Booklet, 2001.

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