

Material Safety Data Sheet Sodium cyanoborohydride, 95+%

MSDS# 17430

	Section 1 - Chemical Product and Company Identification			
MSDS Name:	Sodium cyanoborohydride, 95+%			
Catalog Numbers:	AC168550000, AC168550100, AC168550500, AC9556139, AC9584945, AC9584951			
Synonyms:	Sodium cyanotrihydroborate			
	Acros Organics BVBA			

Company Identification:	Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium		
Company Identification: (USA)	Acros Organics One Reagent Lane Fair Lawn, NJ 07410		
For information in the US, call:	800-ACROS-01		
For information in Europe, call:	+32 14 57 52 11		
Emergency Number, Europe:	+32 14 57 52 99		
Emergency Number US:	201-796-7100		
CHEMTREC Phone Number, US:	800-424-9300		
CHEMTREC Phone Number, Europe:	703-527-3887		

Section 2 - Composition, Information on Ingredients

25895-60-7	
Sodium cyanoborohydride	
>95.0	
247-317-2	

Hazard Symbols:



Risk Phrases:

ΤF



10 15 23/24/25 32 34

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Flammable solid. Water-reactive. Causes severe respiratory tract irritation with possible burns. Causes eye and skin irritation and burns. Causes severe digestive tract irritation with possible burns. Toxic if swallowed, inhaled or absorbed through the skin. Target Organs: No data found.

Potential Health Effects

- Eye: Causes eye irritation and burns. May cause chemical conjunctivitis.
 Skin: May be absorbed through the skin. May be metabolized to cyanide which in turn acts by inhibiting cytochrome oxidase impairing cellular respiration. Causes skin irritation and burns.
 Incention
- Ingestion: May be fatal if swallowed. Poison by ingestion. Causes gastrointestinal tract burns. Ingestion may result in symptoms similar to cyanide poisoning which is characterized by asphyxiation.

Inhalation: May cause respiratory tract irritation. May be metabolized to cyanide which in turns act by inhibiting cytochrome oxidase impairing cellular respiration.

Chronic: No information found.

Section 4 - First Aid Measures

		Section	4 - Flist Alu Measules				
Eyes:	Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).						
Skin:	Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.						
Ingestion:	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Treat patient as for inhalation.						
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration						
Notes to Physician:							
		Section 5	- Fire Fighting Measures				
General Information	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved eral or equivalent), and full protective gear. Water reactive. Material will react with water and may release a						
Extinguishir Media:	uishing Use dry chemical to fight fire. Contact professional fire-fighters immediately. DO NOT USE WATER						
Autoig Tempera	nition ature: Not availal	ble					
1	Point: Not availal	ble					
Expl Limits: L	osion ower: Not availal	ole					
Expl Limits: U	osion pper: Not availat	ole					
NFPA Ra	ating: ; Special H	lazard: -W-					
		Section 6 - A	ccidental Release Measure	S			
General Information	Use proper personal protective equipment as indicated in Section 8.						
Spills/Leak	eaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.						
		Section 7	- Handling and Storage				
Handling: ^c d	ontact with eyes, angerous. Keep	after handling. Use with add , skin, and clothing. Empty container tightly closed. Ke t, weld, braze, solder, drill,	containers retain product reep away from heat, sparks	esidue, (liquid and/or vaj and flame. Do not inges	por), and can be at or inhale. Do		
Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container.Storage: Keep under a nitrogen blanket. Store in a cool, dry, well-ventilated area away from incompatible substances.Water free area.							
Section 8 - Exposure Controls, Personal Protection							
		+ ACGIH					

 Image: Index inde

OSHA Vacated PELs: Sodium cyanoborohydride: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

 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 prevent skin exposure.

 Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators:

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

 Section 9 - Physical and Chemical Properties

Physical State: Solid Color: white Odor: Not available pH: Not available Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available Viscosity: Not available Boiling Point: Not available Freezing/Melting Point: >242 deg C dec Decomposition Temperature: Not available Solubility in water: Reacts Specific Gravity/Density: Molecular Formula: CH3BNNa

Molecular Weight: 62.84

Section 10 - Stability and Reactivity Stable. Chemical Stability: High temperatures, incompatible materials, ignition sources, dust generation, contact with Conditions to Avoid: water. Incompatibilities with Other Not available Materials Hazardous Decomposition Hydrogen cyanide, nitrogen oxides, carbon monoxide, carbon dioxide, oxides of boron, Products borane, hydrogen gas. Hazardous Polymerization Has not been reported. Section 11 - Toxicological Information

RTECS#: CAS# 25895-60-7: None listed LD50/LC50: RTECS: Not available. Carcinogenicity: Sodium cyanoborohydride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: Not available Teratogenicity: Not available Reproductive: Not available Neurotoxicity: Not available Mutagenicity: Not available Other: Not available

Not available

Section 12 - Ecological Information Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

US DOT Shipping Name: WATER-REACTIVE SOLID, TOXIC, N.O.S. Hazard Class: 4.3 UN Number: UN3134 Packing Group: II Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group: Section 15 - Regulatory Information **US** Federal **TSCA** CAS# 25895-60-7 is listed on the TSCA Inventory. Health & Safety Reporting None of the chemicals are on the Health & Safety Reporting List. List **Chemical Test Rules** None of the chemicals in this product are under a Chemical Test Rule. None of the chemicals are listed under TSCA Section 12b. Section 12b TSCA Significant New Use None of the chemicals in this material have a SNUR under TSCA. Rule **CERCLA Hazardous** Substances and None of the chemicals in this material have an RQ. corresponding RQs SARA Section 302 Extremely Hazardous None of the chemicals in this product have a TPQ. Substances Section 313 No chemicals are reportable under Section 313. This material does not contain any hazardous air pollutants. This material does not contain any Clean Air Act: Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors. None of the chemicals in this product are listed as Hazardous Substances under the CWA. Clean Water Act: 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: STATE Sodium cyanoborohydride is not present on state lists from CA, PA, MN, MA, FL, or NJ. California Prop 65 California No Significant None of the chemicals in this product are listed. **Risk Level:** European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: T F **Risk Phrases:** R 10 Flammable. R 15 Contact with water liberates extremely flammable gases. R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R 32 Contact with acids liberates very toxic gas. R 34 Causes burns. Safety Phrases:

S 7/8 Keep container tightly closed and dry.

S 25 Avoid contact with eyes.

S 28A After contact with skin, wash immediately with plenty of water.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 25895-60-7: 2

Canada

CAS# 25895-60-7 is listed on Canada's NDSL List

Canadian WHMIS Classifications: B6, D1B, E

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 25895-60-7 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information MSDS Creation Date: 8/10/1998

Revision #3 Date 10/03/2005

Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 event shall the company 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 the company has been advised of the possibility of such damages.
