

THIS APPLIES TO UNDILUTED MATERIAL ONLY!



**Safety Data Sheet**  
**HD 80<sub>561</sub>**  
SDS Revision Date 08/03/2020

**1. Product and Company Name**

**1.1. Product identifier**

**Product Identity** HD 80<sub>561</sub>  
**Alternate Names** NA ID NO: 561.20

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

**Intended use** See Label  
**Application Method** See Technical Data Sheet

**1.3. Details of the supplier of the safety data sheet**

**Company Name** Hydrus Detergents  
2621 7<sup>th</sup> Avenue South  
Estherville, IA. 51334

**1.4 Medical and Emergency Spill Information**

**FOR EMERGENCY SPILL, LEAK, FIRE, EXPOSURE CALL 24/7**  
**Customer Service: Hydrus Detergents**  
CHEMTREC: (800) 424-9300  
Outside US: (703)-527-3887  
PHONE: (712) 765-1060  
FAX: (712) 765-1062

**2. Hazard identification of the product**

**2.1. Classification of the substance or mixture**

Acute Tox. 4;H302 Harmful if swallowed.  
Acute Tox. 5;H313 May be harmful in contact with skin. (Not adopted by US OSHA)  
Skin Corr. 1A;H314 May cause severe skin burns and eye damage.  
Eye Dam. 1;H318 May cause serious eye damage.

**2.2. Label elements**

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Danger**

H302 Harmful if swallowed  
H313 May be harmful in contact with skin.  
H314 May cause severe skin burns and eye damage  
H318 May cause serious eye damage.

**[Prevention]:**

P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.  
P264 Wash thoroughly after handling.  
P271 Use in a well-ventilated area.  
P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention  
P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
 P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
 P333+313 If skin irritation or a rash occurs: Get medical advice / attention.  
 P363 Wash contaminated clothing before reuse.  
 P391 Collect spillage.

**[Storage]:**

P405 Store locked up.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

**3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %
Disodium metasilicate CAS Number: 0006834-92-0	10 - 30
Sodium hydroxide CAS Number: 0001310-73-2	50 - 80
Surfactant CAS Number: Proprietary	01 - 10
Pentasodium triphosphate CAS Number: 0007558-29-4	01 - 10

**4. First aid measures**

**4.1. Description of first aid measures**

**General** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is stopped, give artificial respiration. Seek immediate medical attention. Never give anything by mouth to an unconscious person.

**Eyes** Allow streaming water to flow over the face while blinking both eyes for optimum irrigation for 15-minutes. Get medical attention immediately.

**Skin** Thoroughly wash with water while removing contaminated clothing and footwear. Seek medical attention immediately. Discard non-rubber shoes and wash contaminated clothing. Seek medical attention immediately.

**Ingestion** If swallowed, do NOT induce vomiting; give large quantities of milk or water to flush system. If vomiting occurs keep airways clear. Seek medical attention immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

**ACUTE** Corrosive to all body tissues.  
**CHRONIC** None Known  
**SIGNS AND SYMPTOMS OF EXPOSURE** Irritation and burns  
**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** No data available

**Overview** INHALATION: Coughing or sneezing may occur due to exposure to airborne dust. Lung tissue damage may occur due to overexposure.

EYES: Tissue destruction and permanent eye damage may occur if not treated immediately.

SKIN: Can be a severe irritant. May be corrosive and cause severe burns.

INGESTION: Corrosive to mucous membranes of the mouth, esophagus, stomach and throat

**Eyes** Tissue destruction and permanent eye damage may occur if not treated immediately.  
**Skin** May be harmful in contact with skin (Not adopted by US OSHA) May cause severe skin burns and eye damage.  
**Ingestion** May be harmful if swallowed. (Not adopted by US OSHA)

**5. Fire-fighting measures**

**5.1. Extinguishing media:** Water, dry chemical, carbon dioxide, fog, foam.

**5.2. Special hazards arising from the substance or mixture:** Hazardous decomposition: Heat. Keep personnel removed and upwind of fire. Neutralize any spills with baking soda or dilute acid. Avoid breathing dust / fume / gas / mist / vapors / spray. It will react with acids to produce extreme heat.

**5.3. Advice for fire-fighters:** Respiratory and eye protection are required for fire-fighting personnel. Full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires.

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## 6. Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures:** Put on appropriate personal protective equipment (see section 8).

**6.2. Environmental precautions:** This product will react with "soft" metals such as aluminum, zinc, lithium and magnesium to produce flammable hydrogen gas. Will react to acids to produce extreme heat. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**6.3. Methods and material for containment and cleaning up:** Sweep up spilled material and reuse. Small residual can be flushed with water.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.  
See section 2 for further details. - Prevention

### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed.  
Store in a cool dry place.  
Incompatible materials: Acids  
Hazardous Decomposition: Heat  
See section 2 for further details. – Storage

### 7.3. Specific end use(s)

Industrial detergent

## 8. Exposure controls and personal protection

### 8.1. Control parameters

CAS No.	Ingredient	Source	Value
0001310-73-2	Sodium hydroxide	OSHA	TWA 2 mg/m <sup>3</sup>
		ACGIH	Ceiling: 2 mg/m <sup>3</sup>
		NIOSH	C 2 mg/m <sup>3</sup>
		Supplier	No Established Limit
0006834-92-0	Disodium metasilicate	OSHA	No Established limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	ACHAN TLV/OSHA 2 mg/m <sup>3</sup> PEL 2 mg/m <sup>3</sup>

Carcinogen Data: No suspected or known carcinogens

### 8.2. Exposure controls

#### Respiratory

Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.

#### Eyes

Wear safety glasses with side shields to protect eyes. An eye wash station is suggested as a good workplace practice.

#### Skin

Chemical resistant clothing such as coveralls/apron boots should be worn. Chemical impervious gloves need to be worn.

#### Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

#### Other Work Practices

Eye wash stations should be provided in areas where this product is used. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. – Prevention

## 9. Physical and chemical properties

Appearance

White Powder

Odor

Non Substantial Odor

Odor threshold

Not Measured

pH

12.5 (5 % Solution)

Melting point / freezing point

NA

Initial boiling point and boiling range

NA

Flash Point

NA

Evaporation rate (Ether = 1)

Not Measured

Flammability (solid, gas)

Not Applicable

**Upper/lower flammability or explosive limits**

Vapor pressure (Pa)

Vapor Density

Specific Gravity

Solubility in Water

Partition coefficient n-octanol/water (Log Kow)

Auto-ignition temperature

Decomposition temperature

Viscosity (cSt)

Reacts with water (Soluble in most organic solvents.)

Lower Explosive Limit: NA

Upper Explosive Limit: NA

23 @ 70 F

NA (Air=1)

NA

Soluble

Not Measured

NA

Not Measured

Not Measured

Liberates Heat

**9.2. Other information**

No other relevant information.

**10. Stability and reactivity****10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Product will absorb water and carbon dioxide.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

Acids

**10.6. Hazardous decomposition products**

Heat

**11. Toxicological information****Acute toxicity**

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Disodium metasilicate - (6834-92-0)	1,153.00, Rat - Category: 4	No data available	No data available	No data available	No data available
Sodium hydroxide - (1310-73-2)	6,600.00, Mouse - Category: NA	1,350.00, Rabbit - Category: 4	600.00, Mouse - Category: NA	No data available	No data available
Pentasodium triphosphate - (7758-29-4)	3,120.00 Rat - Category:5	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed
Acute toxicity (dermal)	5	May be harmful in contact with skin. (Not adopted by US OSHA)
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1A	May cause severe skin burns and eye damage.
Serious eye damage/irritation	1	May cause serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

**12. Ecological information****12.1. Toxicity**

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Disodium metasilicate - (6834-92-0)	210.00, Danio rerio	33.53, Ceriodaphnia dubia	400.00 (72 hr), Pseudokirchneriella subcapitata

Sodium hydroxide - (1310-73-2)	196.00, Poecilia reticulata	40.38, Ceriodaphnia dubia	Not Available
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**12.2. Persistence and degradability**

There is no data available on the preparation itself.

**12.3. Bioaccumulative potential**

Not Measured

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No data available.

**13. Disposal considerations**

**13.1. Waste treatment methods**

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

**14. Transport information**

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
<b>14.1. UN number</b>	UN1823	UN1823	UN1823
<b>14.2. UN proper shipping name</b>	UN1823 Sodium Hydroxide, Solid, Mixture 8, II	Sodium Hydroxide, solid	Sodium Hydroxide, solid
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class: 8</b> <b>DOT Label: 8</b>	<b>IMDG: 8</b> <b>Sub Class: Not Applicable</b>	<b>Air Class: 8</b>
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards: IMDG</b>	Marine Pollutant: No		
<b>14.6. Special precautions for user:</b>	No further information		
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not Applicable		

**15. Regulatory information**

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.

**WHMIS Classification**  
**US EPA Tier II Hazards**

D2B E

**Fire:** No  
**Sudden Release of Pressure:** No  
**Reactive:** No  
**Immediate (Acute):** Yes  
**Delayed (Chronic):** No

- EPCRA 311/312 Chemicals and RQs:** Sodium Hydroxide (1000.00)
- EPCRA 302 Extremely Hazardous :** (No Product Ingredients Listed)
- EPCRA 313 Toxic Chemicals:** (No Product Ingredients Listed)
- Proposition 65 – Carcinogens (>0.0%)** (No Product Ingredients Listed)
- Proposition 65 - Developmental Toxins (>0.0%):** (No Product ingredients Listed)
- Proposition 65 - Female Repro Toxins (>0.0%):** (No Product Ingredients Listed)
- Proposition 65 - Male Repro Toxins (>0.0%):** (No Product Ingredients Listed)
- N.J. RTK Substances (>1%) :** Sodium Hydroxide
- Penn RTK Substances (>1%) :** Sodium Hydroxide

**16. Other information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

We believe this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act. We believe the information contained on this Safety Data Sheet is current and offered in good faith. The information is provided for your guidance only. Hydrus Detergents makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. It is the user's obligation to determine the suitability of this product for a specific purpose and the conditions for safe use of the product. We reserve the right to revise this Safety Data Sheet as newer information becomes available. Hydrus Detergents makes no warranty of any kind.

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