

**Safety Data Sheet (SDS)****IMPROVE HI**

Prepared to GHS-USA Requirements

**Date Prepared: 8/1/14****Page: 1 / 4****1 Identification of the substance/mixture and of the company/undertaking****1.1 Product Identifier**

Trade Name: **IMPROVE HI**  
 Product Type: Alkaline Detergent  
**Recommended Use:** Commercial Detergent Booster  
**1.2 Details of the supplier of the safety data sheet**

Company: Woltco Inc.  
 700 Main Street  
 Coopersville, MI. 49040  
 Phone: 1-616-837-7373

**1.4 Emergency Information**

Contact Info: CHEMTREC: 1-800-424-9300 (24 HOUR RESPONSE)

**2 Hazards Identification****2.1 Classification of the substance or mixture**

Skin Corrosion: Category 1      Aspiration Hazard: Category 1  
 Eye Corrosion: Category 1      Acute Toxicity (Oral): Category 2

**2.2 Label Elements**

Symbol(s)



Signal Word: DANGER

Hazard Statements:

H300 - Fatal if swallowed.

H314 - Causes severe skin burns and eye damage

Precautionary Statements:

P262 - Do not get in eyes, on skin or clothing.

P280 - Wear protective gloves and eye protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER / doctor.

P302 - IF ON SKIN: Rinse area with water for several minutes.

P305 - IF IN EYES: Flush cautiously with water, remove contact lens if any. Continue flushing.

P337+P313: If eye irritation persists. Get medical attention or advice.

**HMIS-ratings (scale 0-4)****Definitions: 0-least, 1-slight, 2-Moderate, 3-High, 4-Extreme**

<b>HEALTH</b>	3
<b>FIRE</b>	0
<b>REACTIVITY</b>	1
<b>Protection</b>	B

**3 Composition/Information on Ingredients****3.1 Substances**

CAS Number:	Component	% by weight (optional)
7732-18-5	Water	>50
1310-73-2	Sodium Hydroxide	10 to 25
1310-58-3	Potassium Hydroxide	10 to 25
64-02-8	Tetra Sodium, EDTA	
527-07-1	D-Gluconic Acid, Sodium Salts	
Proprietary	Surfactants	

Chemical characterization:

Mixture of the above ingredients to form a single uniform solution.

**4 First aid measures**

**4.1 Description of first aid measures**

General Info: Get immediate medical attention if swallowed or in eyes. Remove and wash contaminated clothing.  
 Inhalation: Ensure supply of fresh air and keep person(s) calm and comfortable for breathing.  
 Eye Contact: Flush cautiously with water for several minutes. Remove contact lenses if any then continue flushing.  
 Skin contact: Remove all contaminated clothing immediately. Rinse area for several minutes with water, then if available rinse area with 5% vinegar (not around eyes), then rinse again with water for several minutes.  
 Ingestion: Do not induce vomiting. If person is conscious give 1-2 glasses of water or milk and seek medical attention.

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

Information is not available.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5 Fire-fighting measures**

**5.1 Extinguishing media**

Suitable for use: foam, carbon dioxide, dry powder, water spray  
 Not suitable for use: water jet is not recommended.

**5.2 Special hazards arising from the substance or mixture**

Product will react violently with soft metals in neat form forming hazardous gases (eg. Zinc).

**5.3 Advice for fire-fighters**

This product will not burn. Treat area as for surrounding fire. Wear self-contained breathing apparatus pressure demand, (MSHA/NIOSH approved or equivalent) and full protective gear. Slippery where spilled.

**6 Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment, keep unprotected persons away. Ensure adequate ventilation during clean up.

**6.2 Environmental precautions:**

Do not allow to enter drains or waterways.  
 Do not purposely discharge into the subsoil/soil.

**6.3 Methods and material for containment and clean up:**

Take up with absorbent material (universal binder, diatomaceous earth). For large spills dike area then scoop or pump product into plastic containers for disposal. Small amounts of this product can be rinsed with large amounts of water into a sanitary sewer system. \*Neutralizing cautiously with dilute acid prior to clean up can reduce disposal hazards.

**7 Handling & Storage**

**7.1 Precautions for safe handling**

Advice on safe handling: No special measures are necessary if stored and handled as prescribed.  
 Handling: Caps should be tight and outside of container free of residue before moving.  
 Hygiene measures: Do not eat or drink when using this product. Wash hands after using. Remove soiled or soaked clothing immediately. Avoid contact with eyes and skin.  
 General measures: Avoid contact with eyes and skin and do not inhale concentrated vapors.

**7.2 Conditions for safe storage, including any incompatibilities**

**Prevention of fire and explosion**

Information: No special measures required.

**Storage**

Information: Store with lids tightly sealed. Keep at room temperature, out of direct sunlight. Best if used within 2 years of manufacturer date.

**8 Exposure Controls/Personal Protection**

**8.1 Control parameters:**

**Components with limit values that require monitoring at the work place:**

Component	CAS-No.	Statutory basis/list	Value type	Value
Sodium Hydroxide	1310-73-2	OSHA PEL	TWA	2 mg/m3
Potassium Hydroxide	1310-58-3	OSHA PEL	TWA	2 mg/m3

**8.2 Exposure controls**

(continued from page 2)

**Engineering controls**

Appropriate controls:

Good general ventilation (local exhaust) should be sufficient to control airborne levels.

**Personal protective equipment**

Eye Protection:

Use chemical resistant goggles, safety glasses with side shields or full face mask.

Hand Protection:

Elbow height rubber gloves

Body Protection:

A chemical resistant apron is suggested to protect clothing and the body from contact.

Respiratory Protection:

None required but if desired select a NIOSH approved respirator for mists.

**9 Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

<u>Product State:</u>	Liquid	<u>Auto Igniting:</u>	Product is not selfigniting
<u>Color:</u>	Amber	<u>Vapor Density:</u>	Not Determined
<u>Odor:</u>	Caustic, Amine	<u>Vapor Pressure:</u>	Not Determined
<u>pH:</u>	<14.0	<u>Evaporation Rate:</u>	Not Determined
<u>Boiling Point:</u>	>212°F	<u>Viscosity:</u>	Not Determined
<u>Freeze Point:</u>	~32°F	<u>Decomposition Temp:</u>	Not Determined
<u>VOC's % by wgt:</u>	None	<u>Partition Coefficient (n-octanol/water)</u>	Not Determined
<u>Phosphorous %:</u>	None	<u>Flash Point °F:</u>	None
<u>Specific Gravity:</u>	1.30-1.35		
<u>Solubility:</u>	Soluble		

**10 Stability and Reactivity**

<b>10.1 Reactivity:</b>	Product is not reactive under normal conditions.
<b>10.2 Chemical Stability:</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	Under proper storage and handling no reactions are possible.
<b>10.4 Conditions to avoid:</b>	None known.
<b>10.5 Incompatible materials:</b>	Strong oxidizers, Acids
<b>10.6 Hazardous decomposition products:</b>	Carbon Dioxide, Carbon Monoxide

**11 Toxicological Information****11.1 Information on toxicological effects****Acute toxicity of known ingredients:****Sodium Hydroxide**

Oral : LD50: &lt;250 mg/kg (rat)

**Potassium Hydroxide**

Oral: LD50 (rat): 214 mg/kg

**Acute Effects of this mixture:**

Skin:	Will severely burn and defat the skin.
Eye:	Produces rapid serious eye irritation and damage.
Ingestion:	Extremely corrosive to mucous membranes, mouth, throat and stomach and other organs.
Inhalation:	Concentrated mists are harmful and corrosive to respiratory system.

**Carcinogens:** None known

\*No other toxicological data is available on this mixture.

**12 Ecological Information****12.1-12.6 No ecological information is available nor has been performed on these sections.****General Notes:**

Do not allow large quantities of undiluted product enter the ground, waterways or waste water canals.  
High levels of surfactants and increased pH levels are harmful to aquatic life.

**13 Disposal Considerations****13.1 Waste treatment methods**

**Product:** Follow local regulations for proper disposal and reporting of spills.  
**Contaminated packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards. Original labels must not be removed, lids closed and provide person collecting the container(s) with an SDS.

**14 Transport Information**

Not dangerous according to transport regulations

**14.1 UN number:** UN1760  
**14.2 UN proper shipping name:** Corrosive, Liquids, NOS (Sodium Hydroxide, Potassium Hydroxide)  
**14.3 Transport hazard class(es):** 8  
**14.4 Packing group:** II  
**14.5 Environmental hazards:** Aquatic  
**14.6 Special precautions for user:** None known

**15 Regulatory Information****Proposition 65 (Chemicals known to cause cancer)**

None known

**Section 313 (specific toxic chemical listings)**

Sodium Hydroxide

**Section 355 (extremely hazardous substances)**

Sodium Hydroxide

**TSCA (Toxic Substances Control Act)**

All ingredients are listed, registered or exempted.

**16 Other Information****DISCLAIMER:**

Information presented herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. Since conditions of use are beyond our control we make warranties, expressed or implied. If anything is added to this product the information presented here may be altered and could make this SDS invalid. This SDS shall not establish a legally valid contractual relationship.

**LEGEND:**

ACGIH: American Conference of Governmental Industrial Hygienists / CAS:Chemical Abstracts Services

CHEMTREC:Chemical Transportation Emergency Center / DOT:Department of Transportation

EHS:Extremely Hazardous Substances / EPA: Environmental Protection Agency

HMIS: Hazardous Materials Identification System / IARC:International Agency for Research on Cancer

LEL/UEL:Lower and Upper Explosive Limit / mg/m3:Milligrams per cubic meter / LD50:Lethal Dose 50%

NIOSH:National Institute of Occupational Health & Safety / NFPA:National Fire Protection Association

NTP:National Toxicology Program / OSHA:Occupational Safety & Health Administration

PEL:Permissible Exposure Limit / PPE:Personal Protective Equipment /

SARA:Super fund Amendments and Reauthorization Act / SDS:Safety Data Sheet / TLV:Threshold Limit Value

TWA:Time Weighted Average / TSCA:US Toxic Substance Control Act