SAFETY DATA SHEET

Issue Date 27-Jan-2010 **Revision Date** 07-Mar-2013 **Version** 1

1. IDENTIFICATION

Product Identifier
Product Name HUSKY

Other Means of Identification
SDS # KI-012

UN/ID No NA1760

Recommended Use of the Chemical and Restrictions on Use
Recommended Use Liquid Detergent.

Details of the Supplier of the Safety Data Sheet
Supplier Address
Kemper Industries, Inc.
P.O. Box 1172
2197 Stanton Rd.
Daphne, AL 36526

Emergency Telephone Number
Company Phone Number Handling 251-626-3083
Technical 866-536-4225
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Signal Word
Danger

Hazard Statements
Causes severe skin burns and eye damage

Appearance Amber liquid **Physical State** Liquid **Odor** Mild detergent

Precautionary Statements - Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
Get medical attention if symptoms persist
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)
Not Applicable
Other Information

• Harmful to aquatic life with long lasting effects
• Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium hydroxide	1310-73-2	<10
Sodium metasilicate	6834-92-0	<5
2-Butoxyethanol	111-76-2	<5
Tetrasodium EDTA	64-02-8	<5

Proprietary blend of surfactants

4. FIRST AID MEASURES

First Aid Measures

General advice If exposed or concerned: Get medical advice/attention.

Inhalation Remove to fresh air. Administer oxygen if breathing is difficult. If not breathing, give artificial respiration. Call a physician immediately.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.

Ingestion Rinse mouth. Do NOT induce vomiting. If ingestion of a large amount does occur, call a poison control center immediately.

Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation persists, call a physician.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms Causes mild skin irritation. Prolonged contact may even cause severe skin irritation or mild burn. May cause discomfort if swallowed. Prolonged exposure in poorly ventilated area may cause respiratory irritation. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. May cause severe eye irritation. Severe burns to exposed skin.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Carbon dioxide (CO2). Dry chemical. Foam. Water spray (fog).

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous combustion products Thermal decomposition may yield oxides of carbon.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Avoid breathing vapors, mist or gas. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after exposure or clean-up.

For Emergency Responders Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental Precautions See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment Small Spill: Absorb liquid on paper, vermiculite, floor absorbent or other absorbent material. Large Spill: Avoid heat. Stop spill at source, dyke area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers.

Methods for Cleaning Up For waste disposal, see section 13 of the SDS. Clean up in accordance with all applicable regulations. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Do not take internally. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wear appropriate personal protective equipment. Wash face, hands, and any exposed skin thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Handle in accordance with good industrial hygiene and safety practice.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep from freezing. Keep container closed when not in use. Store locked up.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m³	TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³	IDLH: 10 mg/m³ Ceiling: 2 mg/m³
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m³
Sodium metasilicate 6834-92-0	2 mg/m³	2 mg/m³	-

Appropriate Engineering Controls

Engineering Controls Local exhaust ventilation recommended. For operations where contact can occur, a safety shower and an eye wash facility should be available.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Avoid contact with eyes. Splash proof goggles where possible eye contamination exists.

Skin and Body Protection Wear rubber gloves that are chemically resistant to this product. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. Where excess concentration of product is expected, a NIOSH approved air supplied respirator is advised in absence of proper environmental control.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Avoid inhalation of contaminant. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid		
Appearance	Amber liquid	**Odor**	Mild detergent
Color	Red	**Odor threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	13.5	
Melting point/freezing point	0 °C / 32 °F	
Boiling point/boiling range	100 °C / 212 °F	
Flash point	Non-flammable	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not determined	
Flammability limits in air		
Upper flammability limits	Not determined	
Lower flammability limit	Not determined	
Vapor pressure	Not determined	
Vapor density	Not determined	
Specific gravity	1.02	
Water solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic viscosity	Not determined	
Explosive properties	Not determined	
Oxidizing Properties	Not determined	

Other Information

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions

Chemical Stability
Stable under normal conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Incompatible Materials. Keep from freezing. Keep away from sources of ignition — No smoking.

Incompatible Materials
Strong oxidizing agents.

Hazardous Decomposition Products
Thermal decomposition may yield oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation Inhalation of mists may be irritating to the respiratory system. Avoid breathing vapors or mists.

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Ingestion Ingestion of large amounts may produce gastrointestinal disturbances. Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hydroxide 1310-73-2	-	= 1350 mg/kg (Rabbit)	-
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat) = 220 mg/kg (Rabbit)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Sodium metasilicate 6834-92-0	= 600 mg/kg (Rat)	-	-
Tetrasodium EDTA 64-02-8	= 10 g/kg (Rat)	-	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Skin corrosion/irritation Causes burns.

Serious eye damage/eye irritation May cause severe corneal injury.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol 111-76-2	A3	Group 3		

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"

Numerical Measures of Toxicity- Product
Not determined

The following values are calculated based on chapter 3.1 of the GHS document .
ATEmix (oral) 8785 mg/kg
ATEmix (dermal) 7635 mg/kg
ATEmix (inhalation-dust/mist) 73.7 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life Harmful to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium hydroxide 1310-73-2		45.4: 96 h Oncorhynchus mykiss mg/L LC50 static		
2-Butoxyethanol 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
Sodium metasilicate 6834-92-0		210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50		216: 96 h Daphnia magna mg/L EC50
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static		610: 24 h Daphnia magna mg/L EC50

Persistence and Degradability
This product class is readily biodegradable.

Bioaccumulation
Not determined.

Mobility
Not determined.

Chemical Name	Partition coefficient
2-Butoxyethanol 111-76-2	0.81

Other Adverse Effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Sodium hydroxide 1310-73-2	Toxic Corrosive

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances

DOT

UN/ID No NA1760
Proper Shipping Name Compounds, cleaning liquid (Sodium hydroxide)
Hazard Class 8
Packing Group II

IATA

UN/ID No	UN1760
Proper Shipping Name	Corrosive, liquid, n.o.s. (Sodium hydroxide)
Hazard Class	8
Packing Group	II

IMDG

UN/ID No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (Sodium hydroxide)
Hazard Class	8
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*
DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*
EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
ENCS *- Japan Existing and New Chemical Substances* ***IECSC*** *- China Inventory of Existing Chemical Substances* ***KECL*** *- Korean Existing and Evaluated Chemical Substances*
PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol - 111-76-2	111-76-2	<5	1.0

SARA 311/312 Hazard Categories

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2	1000 lb			X

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide 1310-73-2	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hydroxide 1310-73-2	X	X	X
2-Butoxyethanol 111-76-2	X	X	X

U.S. EPA Label Information

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	2	0	1	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	Not determined	Not determined	Not determined	Not determined

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Revision Note
New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet