

SAFETY DATA SHEET

F-JS-155

Cornhusker Blaze Heavy Duty Cleaner/Degreaser RTU

SECTION 1 - Identification

PRODUCT IDENTITY: Cornhusker Blaze Heavy Duty
Cleaner/Degreaser RTU

PRODUCT NUMBER: F-JS-155

CORNHUSKER STATE INDUSTRIES
800 PIONEERS BLVD
LINCOLN, NEBRASKA 68502
PHONE: 800-348-7537 or 402-471-4597

Emergency Phone Number
CHEMTREC
1-800-424-9300

Recommended Use: Degreasing cleaner
Restrictions on Use: Do not allow to dry on glass surfaces.

SECTION 2 – Hazard(s) Identification

This product is not hazardous as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

PRECAUTIONARY STATEMENTS

Prevention: Avoid contact with skin and eyes. If contact is likely, safety glasses with side shields are recommended. Observe good industrial hygiene practices.

Response: Wash hands after handling.

Storage: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50° C/ 122° F.

Disposal: Dispose of contents/container to an approved waste disposal plant.

SECTION 3 – Composition/ Information on Ingredients

Chemical Name	CAS NO.	Weight-%	Trade Secret
2-(2-butoxyethoxy)ethanol	112-34-5	<0.25%	*
2-butoxyethanol	111-76-2	<0.25%	*
Sodium Metasilicate	6834-92-0	<0.25%	*
PROPRIETARY	Proprietary	<0.25%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 – First-aid Measures

First aid measures

General advice Immediate medical attention is required.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the eye lids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

Inhalation Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion Immediate medical attention is required. Do **NOT** induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.

Self-protection of the first aider Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms Any additional important symptoms and effects in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decreased in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

SECTION 5 – Fire-Fighting Measures**Suitable & Unsuitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from Chemical: The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

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.

SECTION 6 – Accidental Release Measures**Personal precautions, Protective equipment & emergency procedures**

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions: Do not allow into sewer, on the ground or into any body of water. Should not be released into environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for contaminated and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

SECTION 7 – HANDLING & STORAGE**Precautions for safe handling**

Advice on safe handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible materials: Incompatible with strong acids and bases. Incompatible with oxidizing agents.

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SECTION 8 – Exposure Controls/Personal Protection

Control Parameters

Exposure Guidelines

<u>Chemical Name</u>	<u>ACGHI TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
2-(2-butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm inhalable fraction and vapor	Yes	Yes
2-butoxyethanol 111-76-2	TWA: 20ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F .2d 962 (11th Cir, 1992).

Appropriate engineering controls

Engineering controls Showers, Eyewash stations & Ventilation Systems.

Individual protection measures, such as personal protective equipment

Eye/face protection: Tight sealing safety goggles. Face protection shield.

Skin and body protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or overalls, as appropriate, to prevent skin contact.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene: When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

SECTION 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear Violet
Color Violet
Odor Sassafras
Odor threshold No Information available

<u>Property</u>	<u>Values</u>	<u>Remarks •Method</u>
pH	10.5	
Specific Gravity	1.017	
Viscosity	<25 cP @ 25°C	
Melting Point/freezing point	No Information available	
Flash point	None	
Boiling point/Boiling range	100°C / 212°F Degrees	
Evaporation rate	No Information available	
Flammability(solid ,gas)		Not Applicable

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Flammability Limits in Air	Not Applicable
Upper flammability limit:	Not Applicable
Lower flammability limit:	Not Applicable
Vapor pressure	No Information available
Vapor density	No Information available
Water solubility	Complete
Partition coefficient	No Information available
Autoignition temperature	No Information available
Decomposition temperature	No Information available

Other Information

Density Lbs/Gal	8.5
VOC Content (%)	<1%

SECTION 10 – Stability & Reactivity

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Exposure to air or moisture over prolonged periods.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

SECTION-11 - TOXICOLICAL Information

Information on likely routes of exposure:

Product Information	Harmful by inhalation and in contact with eyes and skin.
Inhalation	May cause irritation of respiratory tract.
Eye Contact	Causes severe eye damage.
Skin Contact	May cause severe irritation or burns to the skin. Prolonged or repeated contact may cause absorption to the skin.
Ingestion	Harmful if swallowed. Can burn mouth, throat, and stomach.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-butoxyethoxy)ethanol 112-34-5	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	Yes
2-butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Sodium Metasilicate 6834-92-0	= 600 mg/kg (Rat)	Yes	Yes

Information on toxicology effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Sensitization No Information available.

Germ cell mutagenicity No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
2-butoxyethanol 11-76-2	A3	Group 3	Yes	Yes

ACGIH (American Conference of Government Industrial Hygienists)

A3- Animal Carcinogen

IARC (International Agency for Research on Cancer)

Not classifiable as a human carcinogen

Reproductive toxicity No Information available.

STOT-single exposure No Information available.

STOT-repeated exposure No Information available.

Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

Target organ effects Blood, Central nervous system, EYES, hematopoietic system, Kidney, Liver, Respiratory system, Skin.

Aspiration hazard No Information available.

Numerical measures of toxicity – Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document.

SECTION 12 – ECOLOGICAL INFORMATION

N/A

SECTION 13 – DISPOSAL CONSIDERATIONS

N/A

SECTION 14 – TRANSPORT INFORMATION

N/A

SECTION 15 – REGULATORY INFORMATION

N/A

SECTION 16 – OTHER INFORMATION

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Disclaimer: The information in the sheet was written based on the best knowledge and experience currently available. 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 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. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release.