SAFETY DATA SHEET

1. PRODUCT AND COMPANY INFORMATION

Product identifier

Product name: Business-to-Business Solutions™ Heavy Duty Degreaser

Other means of identification

Product code: 603383, 603395

Synonyms: Industroclean Heavy Duty Cleaner

Recommended use of the chemical and restrictions on use

Recommended use: Cleaning agent

Uses advised against: No information available

Details of the supplier of the safety data sheet

Distributor
Access Business Group, LLC
Business to Business Marketing Group
7575 Fulton Street East
Ada, Michigan 49355

Product information
Business to Business Marketing Group
7575 Fulton Street East
Ada, Michigan 49355
Information: 1 800-992-6929

Manufacturer
Access Business Group, LLC
7575 Fulton Street East
Ada, MI 49355
USA
Tel: 1-800-253-6500

E-mail address: sds@amway.com

Emergency telephone number

For Transportation Emergencies: ChemTrec @ 1-800-424-9300

Emergency Telephone Number: For Poisoning Emergencies call Amway's poison control service in the United States at 1-616-787-6307. This is a 24-hour number.

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements

DANGER

Hazard statements:
Causes severe skin burns and eye damage

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

Precautionary Statements - Response

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Skin
Remove/Take off immediately all contaminated clothing
Rinse skin with water/shower
Wash contaminated clothing before reuse

Inhalation:
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

Ingestion
IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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
• Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS #	Weight %	Trade secret
Ethanol, 2-butoxy-	Glycol ether	111-76-2	1-5	*
Sodium carbonate	Sodium carbonate	497-19-8	1-5	*
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt	Surfactant	9004-82-4	1-5	*

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

4. FIRST AID MEASURES

First aid measures

Eye contact: Remove contact lenses. Rinse with gentle stream of water for 15 minutes, holding eyelids open. Get IMMEDIATE medical advice by calling a poison control center, doctor or hospital emergency room.

Skin contact: Remove contaminated clothing Rinse skin thoroughly with water. Get medical advice if symptoms develop.

Inhalation: Move to fresh air. If irritation or breathing difficulty develops, GET MEDICAL ADVICE by calling a poison control center, doctor or hospital emergency room.

Ingestion: If victim is a child, give 4-8 ounces of water. For adults, give 8-12 ounces of water. Do not induce vomiting when this product is swallowed. If vomiting occurs spontaneously, keep victim in an upright position. GET MEDICAL ADVICE by calling a poison control center, doctor or hospital emergency room.

Protection of first-aiders: Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

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

Unsuitable extinguishing media:
No information available.

Specific hazards arising from the chemical

No special exposure hazards are known.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions:
Wear appropriate personal protection equipment (respirator, gloves, goggles, and/or faceshield, boots, protective clothing).

For emergency responders:
Use personal protective equipment as required.

Environmental precautions

See Section 12 for additional Ecological Information. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment:
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for cleaning up:
Neutralize with acid. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Dispose of in accordance with all national and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling:
Avoid contact with skin and eyes. Wash hands thoroughly after handling. Wear protective gloves and eye/face protection. Use only as directed.

General hygiene considerations:
Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions:
Keep in properly labeled containers. Keep locked up and out of reach of children. Do not store near acids.

Materials to avoid
Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits:

Chemical Name	ACGIH TWA	ACGIH STEL	ACGIH CEILING	ACGIH - Skin Absorption Designation
Ethanol, 2-butoxy- 111-76-2	20 ppm			

Chemical Name	OSHA TWA	OSHA-Table Z-3 Mineral Dust	OSHA CEILING	OSHA - Skin Notations
Ethanol, 2-butoxy- 111-76-2	50 ppm 240 mg/m^3			prevent or reduce skin absorption

Derived No Effect Level (DNEL):
No information available.

Predicted No Effect Concentration (PNEC):
No information available.

Appropriate engineering controls

Engineering measures:
Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Follow label directions. Avoid contact with eyes. Prevent eye contact by using protective eye wear appropriate for conditions of use. Wear safety glasses with side shields (or goggles). Face protection shield.
Hand protection:	Follow label directions. Prevent prolonged skin contact with this material by using protective gloves appropriate for the hazard presented by this substance.
Skin and body protection:	Follow label directions. Prevent skin contact by using protective clothing appropriate for the hazard presented by this substance. Wear protective gloves and protective clothing
Respiratory protection:	Follow label directions. Respiratory protective equipment is not normally necessary when this product is used according to product label directions.

General industrial hygiene practice:
Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Liquid		
Appearance:	Clear	**Odor:**	Solvent
Color:	No information available	**Odor threshold:**	No information available

Property	**Values**	**Remarks • Method**
pH:	12.2 - 12.8	
Melting point/freezing point:		No information available
Boiling point/boiling range:		No information available
Flash point:	> 93.3 °C / > 200 °F	Setaflash Closed Cup Tester
Evaporation rate:		No information available
Flammability (solid, gas):		No information available
Flammability limit in air:		
Upper flammability limit:		
Lower flammability limit:		
Vapor pressure:		No information available
Vapor density:		No information available
Specific gravity:	1.030 - 1.042	
Water solubility:		No information available
Solubility(ies):		No information available
Partition coefficient		No information available
Autoignition temperature:		No information available
Decomposition temperature:		No information available
Kinematic viscosity:		No information available
Dynamic viscosity:		
Explosive properties:	No information available	
Oxidizing properties:	No information available	
Softening point:	No information available	
Molecular weight:	No information available	
VOC content (%):	No information available	
Density:	No information available	
Bulk density:	No information available	

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stability:
Stable under normal conditions.

Sensitivity to mechanical impact:
None.

Sensitivity to static discharge:
None.

Possibility of hazardous reactions

Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction.

Conditions to avoid

Contact with highly reactive chemicals like strong acids, strong bases, oxidizers or reducing agents may cause a dangerous reaction. Keep out of reach of children.

Incompatible materials:

Not determined.

Hazardous decomposition products

Not determined.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Aggravated medical conditions: Exposure to this product may aggravate pre-existing skin, eye, and respiratory disorders.

Principle routes of exposure: Eye contact, skin contact, skin absorption, inhalation

Inhalation: Inhalation of vapors or mists may cause irritation of the upper respiratory tract. See additional information below.
Eye contact: Avoid contact with eyes. Severely irritating to eyes.
Skin contact: Avoid contact with skin. Irritating to skin.
Ingestion: Ingestion of this product can cause irritation of the mouth and throat, upset stomach, nausea, vomiting and diarrhea.

Further information: Inhalation of vapors or skin contact with 2-butoxyethanol can cause headache, nausea, dizziness and drowsiness. 2-butoxyethanol has caused red blood cell damage in laboratory animals. Humans appear to be resistant to this effect. Chronic exposure to 2-butoxyethanol caused anemia, fetal effects, liver and kidney damage in experimental animals (rats).

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol, 2-butoxy- 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	= 2300 mg/m^3 (Rat) 2 h

Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(dodecyloxy)-, sodium salt 9004-82-4	= 1600 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms: No information available.

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

Skin corrosion/irritation Irritating to skin.
Serious eye damage/eye irritation Risk of serious damage to eyes.
Sensitization: No information available.
Germ cell mutagenicity: None known.
Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC (International Agency for Research on Cancer)	NTP	OSHA
Ethanol, 2-butoxy- 111-76-2	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	Group 3	-	-

Legend
ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity: No information available.
STOT - single exposure: None under normal use conditions.
STOT - repeated exposure: None under normal use conditions.
Aspiration hazard: No hazard from product as supplied.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethanol, 2-butoxy- 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 carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static	265: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

Chemical Name	Partition coefficient

Ethanol, 2-butoxy- 111-76-2	0.81

Mobility in soil

No information available.

Other adverse effects

No information available

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: Only empty packaging can be recycled.

US EPA Waste Number D002

14. TRANSPORT INFORMATION

This product has been tested against the UN protocol used to classify transportation hazards and it does not meet the definition of a dangerous good in transport.

DOT:
UN/ID No.: Not regulated
Proper shipping name: Not regulated
Hazard class: Not regulated
Packing group: Not applicable

IMDG/ADR:
UN/ID No.: Not regulated
Proper shipping name: Not regulated
Hazard class: Not regulated
Packing group: Not applicable
Marine pollutant: Not applicable

ICAO/IATA:
UN/ID No.: Not regulated
Proper shipping name: Not regulated
Hazard class: Not regulated
Packing group: Not applicable
Marine pollutant: Not applicable

The information contained in this document is subject to change or update due to changing government regulations. The user of this document assumes responsibility for complying with all applicable national and international laws and regulations regarding the shipment of Dangerous Goods

15. REGULATORY INFORMATION

EPA RCRA Hazardous Waste Classification: D002

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (Time-Weighted Average)
STEL - STEL (Short Term Exposure Limit)
ACGIH (American Conference of Governmental Industrial Hygienists)
EPA (Environmental Protection Agency)
RCRA (Resource Conservation and Recovery Act)

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Prepared by: Access Business Group LLC, Environmental, Health and Safety Department, Ada, Michigan, U.S.A.

This data sheet contains changes from the previous version in section(s): 6

*****END OF SAFETY DATA SHEET*****