



SAFETY DATA SHEET 522: CONCENTRATE

Conforms to 1910.1200

Issued: June 20, 2024

Supersedes: Mar. 25, 2024

HELIOS H522™ FLOOR STRIPPER

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Helios H522 Floor Stripper **Product Number:** 522

Recommended Use: Butyl-based floor stripper
Concentrate - dilute prior to use.
Product intended for commercial and industrial use only.

Uses Advised Against: Other than per labelled instructions

Manufacturer Address:

Amano Pioneer Eclipse Corporation
P.O. Box 909
1 Eclipse Road
Sparta, NC 28675
Telephone: 1-336-372-8080
Email: sds@pioneereclipse.com
Internet: www.pioneereclipse.com

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
Within USA and Canada 1-800-424-9300. Outside USA and Canada 1-703-527-3887 (collect calls accepted)

2: HAZARDS IDENTIFICATION

Classification: Acute Toxicity (Inhalation) - Category 4
Eye Damage - Category 1
Skin Corrosion - Category 1B
Specific Target Organ Toxicity (Single Exposure) - Category 3

Signal Word: DANGER

Pictogram:



Hazard Statements:

Harmful if inhaled.
Causes serious eye damage.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary Statements:

Do not breathe mist/vapors/spray.
Wash thoroughly after handling.
Use in a well-ventilated area.
Wear protective gloves/eye protection/face protection.
Immediately call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container according to local, regional, national and international regulations.

Other Hazards: None known

Supplemental Information: None known



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3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Weight % *
ethylene glycol monobutyl ether	111-76-2	10 - 30
benzyl alcohol	100-51-6	10 - 20
monoethanolamine	141-43-5	1 - 5

* Exact concentration of the ingredients has been withheld as a trade secret.

4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eye with plenty of water for at least 15 minutes. (If easy to do, remove contact lenses, if worn). Seek medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention.

Inhalation: If breathing is difficult. Remove subject to fresh air. Seek medical attention immediately.

Ingestion: Call a physician or poison control center. Do not induce vomiting. Seek medical advice immediately.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye Contact: Causes eye burns.

Skin Contact: Causes skin burns.

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Ingestion: May cause burns and irritation to mouth, throat and stomach.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

5: FIRE-FIGHTING MEASURES

Suitable Extinguishing media: Water spray, CO₂, dry chemical, alcohol-type or universal type foams

Specific Hazards: Corrosive liquid. (See Sections 8 and 10.) Do not spray a solid stream of water or foam directly in hot liquid. This may cause frothing.

Protective Equipment and Precautions: Fire fighters should wear NIOSH approved breathing apparatus. Materials can splatter above 100° C / 212° F

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Put on personal protective equipment (see Section 8). Keep spectators away. Floors may be slippery: use care to avoid falling.

Environment Precautions: Keep spills and cleaning run-off out of sewers and open bodies of water.

CONTAINMENT AND CLEAN-UP

Small Spills: Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state and federal regulations.

Large Spills: Dike and contain spill with inert material (e.g. sand, earth). Neutralize spill area. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal.

Waste Disposal: Landfill or incinerate the contaminated solids and diking material in accordance with local, state and federal regulations. Non-salvageable liquid should be drummed and disposed of in accordance with local, state and federal regulations.

7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well-ventilated areas. Avoid breathing vapors or mists. Remove and wash contaminated clothing and footwear before re-use.

Conditions for Safe Storage: Storage temperature (Max. 60°C/140°F - Min. 1°C/34°F)

Other Information: Keep from freezing. Keep container sealed when not in use. Keep out of reach of children.



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8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Ingredient	CAS Number	ACGIH		OSHA	
		TWA	STEL	TWA	STEL
ethylene glycol monobutyl ether	111-76-2	20 ppm (BEI)	-	50 ppm (skin)	-
monoethanolamine	141-43-5	3 ppm	6 ppm	3 ppm	-

Engineering Controls: Use only with adequate ventilation. Use local ventilation and other engineering controls to maintain airborne contaminants below established and recommended exposure limits. If this product contains ingredients with exposure limits, monitoring may be required to determine the effectiveness of ventilation and other control measures.

Personal Protective Equipment (PPE)

Eye/Face Protection: Wear eye protection/face protection.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: Respiratory protection should be worn when there is a potential of inadequate ventilation. If exposure limits are exceeded or symptoms are experienced, use an approved respirator.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	clear liquid
Odor:	butyl odor (no added fragrance)
Odor Threshold:	data not available
pH:	11.5
Freezing Point:	data not available
Boiling Point:	data not available
Flash Point:	>200°F / >93°C
Evaporation Rate:	less than water
Flammability (solid/gas):	not applicable to liquids
Flammability limits:	data not available
Vapor Pressure:	data not available
Vapor Density:	data not available
Relative Density:	8.6 lb/gal @ 68°F / 1.32 kg/l @ 20°C
Solubility:	miscible in water
Partition Coefficient:	data not available
Auto Ignition temperature:	data not available
Decomposition Temperature:	data not available
Viscosity:	< 5 centipoise @ 68°F (20°C)
VOC:	25% (as supplied), 5.0% (1:4), 2.8% (1:8), 2.3% (1:10)

10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions. Reacts exothermically with acids: release of heat.

Stability: Stable under normal conditions.

Hazardous reactions: None known under normal conditions. Reacts exothermically with acids: release of heat.

Conditions to avoid: Improper dilution.

Incompatible materials: Strong acids and oxidizing agents. Do not mix with other chemicals unless stated on the product label.

Hazardous decomposition products: carbon oxides, nitrogen oxides

11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Toxicity testing has not been completed on the mixture.

ATE_{mix} (oral): > 2000 mg/kg

ATE_{mix} (dermal): > 2000 mg/kg

ATE_{mix} (inhalation): 12 mg/l (4 hr/vapor) Harmful if inhaled. May cause respiratory irritation.



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LOCAL EFFECTS

Skin contact: Can cause severe skin burns.
Eye contact: Can cause serious eye damage.
Sensitization: None expected
Chronic effects: None expected

SPECIFIC EFFECTS

Carcinogenicity: None known
Reproductive effects: None known
Teratogenicity: None known
Mutagenicity: None known

COMPONENT INFORMATION

Component	LD50 Oral- Rat (mg/kg)	LD50 Dermal - Rabbit (mg/kg)	LC50 Inhalation- Rat (mg/l)
ethylene glycol monobutyl ether	1200	>2000	guinea pig (1hr), >3.1
benzyl alcohol	1230	2000	8.8
monoethanolamine	1720	1025	data not available

Carcinogenicity:

Component	IARC	NTP	OSHA
ethylene glycol monobutyl ether	IARC 3	Not listed	Not listed

12: ECOLOGICAL INFORMATION

Ecotoxicity: Ecological testing has not been completed on the mixture.
Persistence and Degradability: Data not available.
Bioaccumulative Potential: Data not available.
Mobility in Soil: Data not available.
Other Adverse Effects: Data not available.

13: DISPOSAL CONSIDERATIONS

Waste residues or unused products:

Disposal of this material should be in accordance with local, regional and national regulations.
This product, as sold, if discarded or disposed, is a hazardous waste according to 40 CFR 261.
It is the responsibility of the end user to determine, at the time of disposal, if the waste solution meets the criteria for hazardous waste.

RCRA Hazard Class (as sold): D002 - Corrosive

14: TRANSPORT INFORMATION

UN Number: UN1760
UN Proper Shipping Name: Corrosive liquid, n.o.s. (ethanolamine)
Hazard Class: 8
Packing Group: III
Marine Pollutant: None
Transport in Bulk: N/A
Other Information: Package volumes <5 L each are shipped as Limited Quantity; as permitted by hazard class and quantity exemption.

15: REGULATORY INFORMATION

U.S. REGULATIONS/REPORTING:

Ingredient	CAS Number	SARA 302/304	SARA 313	CERCLA
ethylene glycol monobutyl ether	111-76-2	not listed	1.00%	not listed



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STATE RIGHT-TO-KNOW STATUS:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK
ethylene glycol monobutyl ether	111-76-2	present	present	present	present
benzyl alcohol	100-51-6	present	not listed	present	not listed
monoethanolamine	141-43-5	present	present	present	present

CALIFORNIA PROPOSITION 65: Components are not present on CA Prop 65 listing.

CANADA REGULATIONS/REPORTING:

This product has been classified in accordance with the hazard criteria of the Hazardous Product Regulation (HPR) and the SDS contains the information required by the HPR.

NPRI Substance List

Ingredient	CAS Number	Part #	Reporting Threshold
Butoxyethanol	111-76-2	Part 1A	10 tonnes MPO
		Part 5	1 tonne air release

2-Butoxyethanol Regulations

Product diluted per label directions complies to 2-Butoxyethanol Regulation requirements.

Product Category	Dilution Ratio	Concentration Limit
Floor or Baseboard stripper	1:10	≤ 2 % (w/w)

16: OTHER INFORMATION

Abbreviations Used:

ATE _{mix}	Acute Toxicity Estimate - mixture
CAS	Chemical Abstract Service Number
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
IARC	International Agency for Research on Cancer
IARC 3	Unclassifiable as to carcinogenicity in humans
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
N230	Glycol ethers, generic class
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
VOC	Volatile Organic Compound

Revision Information:

June 20, 2024 - Revisions 1, 2, 3, 4, 8, 9, 11, 13 & 15

Health: 3
Flammability: 0
Reactivity: 0

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This SDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

****IMPORTANT SAFETY INFORMATION**DO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER****