

Safety Data Sheet

Issue Date: 22-Jul-1996

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Version 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

SDS # DYNI-008-EU
Product Name NEW DYNASTRIP

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use Floor stripper

1.3. Details of the Supplier of the Safety Data Sheet

Supplier

Dynasol, Inc
330 Pine St.
Canton, MA 02021

For further information, please contact

Contact Point Dynasol, Inc. Phone: 1-781-821-8888
Email Address dynasol2@verizon.net

1.4. Emergency telephone number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture Regulation (EC) No 1272/2008

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

Classification according to 67/548/EEC

Full text of R-phrases: see section 16

Hazard Symbols

Xi - Irritant

R-code(s)

Xi;R36/38

2.2. Label Elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP].



Signal Word

Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

2.3. Other Hazards**General Hazards**

None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

Chemical Name	EC No	CAS No	Weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Monoethanolamine	Present	141-43-5	<5	Xn; R20/21/22 C; R34	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1B (H314)	Not determined
Ethylene Glycol Monobutyl Ether	Present	111-76-2	<5	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	Not determined
Sodium metasilicate	Present	6834-92-0	<5	C; R34 Xi; R37	Skin Corr. 1B (H314) STOT SE 3 (H335)	Not determined
Alcohols, C9-11 ethoxylated	-	68439-46-3	<2	Xi;R41 (self-classification)	Not determined	Not determined

Full text of R-phrases: see section 16**Full text of H- and EUH-phrases: see section 16****Section 4: FIRST AID MEASURES****4.1. Description of First Aid Measures**

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediately call a poison center or doctor/physician.
Skin Contact	Wash off immediately with plenty of water. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. Call a physician or poison control center immediately.

Ingestion Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution; or if they are not available, drink large quantities of water. Immediately call a poison center or doctor/physician.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms Causes severe skin burns and eye damage. Ingestion may cause severe burns to mouth, throat or stomach.

4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Not determined.

5.2. Special Hazards Arising from the Substance or Mixture

Material is corrosive.

Hazardous Combustion Products

Under fire conditions, toxic and irritating fumes may be emitted. Carbon oxides.

5.3. Advice for Firefighters

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

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Use personal protective equipment as required.

For Emergency Responders

Use personal protection recommended in Section 8.

6.2. Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

6.3. Methods and Material for Containment and Cleaning Up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up

Mop up or otherwise absorb with an inert material and place in an appropriate waste disposal container for disposal. Clean up in accordance with all applicable regulations.

6.4. Reference to Other Sections

See Section 13: DISPOSAL CONSIDERATIONS.

Section 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe vapors or spray mist. Wash face, hands, and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.

7.2. Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep locked up and out of reach of children.

7.3. Specific End Use(s)

Specific Use(s)

Floor stripper.

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Exposure Limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Monoethanolamine 141-43-5	TWA: 1 ppm TWA: 2.5 mg/m ³ Skin	STEL: 3 ppm STEL: 7.6 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³ Skin	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³	S* STEL: 3 ppm STEL: 7.5 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³	TWA: 2 ppm TWA: 5.1 mg/m ³ Ceiling / Peak: 4 ppm Ceiling / Peak: 10.2 mg/m ³
Ethylene Glycol Monobutyl Ether 111-76-2	S* TWA 20 ppm TWA 98 mg/m ³ STEL 50 ppm STEL 246 mg/m ³	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 25 ppm TWA: 123 mg/m ³ Skin	TWA: 10 ppm TWA: 49 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³	S* STEL: 50 ppm STEL: 245 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	TWA: 10 ppm TWA: 49 mg/m ³ Ceiling / Peak: 20 ppm Ceiling / Peak: 98 mg/m ³ Skin
Component	Italy	Portugal	Netherlands	Finland	Denmark
Monoethanolamine 141-43-5 (<5)	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ Skin	STEL: 3 ppm STEL: 7.6 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³	Skin STEL: 7.6 mg/m ³ TWA: 2.5 mg/m ³	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ Skin	TWA: 1 ppm TWA: 2.5 mg/m ³ Skin
Ethylene Glycol Monobutyl Ether 111-76-2 (<5)	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ Skin	STEL: 50 ppm STEL: 246 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	Skin STEL: 246 mg/m ³ TWA: 100 mg/m ³	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Skin	TWA: 20 ppm TWA: 98 mg/m ³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland

Monoethanolamine 141-43-5	Skin STEL 3 ppm STEL 7.6 mg/m ³ TWA: 1 ppm TWA: 2.5 mg/m ³	STEL: 4 ppm STEL: 10 mg/m ³ TWA: 2 ppm TWA: 5 mg/m ³	STEL: 7.5 mg/m ³ TWA: 2.5 mg/m ³	TWA: 1 ppm TWA: 2.5 mg/m ³ Skin STEL: 3 ppm STEL: 5 mg/m ³	TWA: 1 ppm TWA: 2.5 mg/m ³ STEL: 3 ppm STEL: 7.6 mg/m ³ Skin
Ethylene Glycol Monobutyl Ether 111-76-2	Skin STEL 40 ppm STEL 200 mg/m ³ TWA: 20 ppm TWA: 98 mg/m ³	Skin STEL: 20 ppm STEL: 98 mg/m ³ TWA: 10 ppm TWA: 49 mg/m ³	STEL: 200 mg/m ³ TWA: 98 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ Skin STEL: 20 ppm STEL: 75 mg/m ³	TWA: 20 ppm TWA: 98 mg/m ³ STEL: 50 ppm STEL: 246 mg/m ³ Skin

8.2. Exposure Controls

Engineering Controls

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

Personal Protective Equipment

Eye/Face Protection

Recommended for general protection.

Hand Protection

Gloves are recommended.

Skin and Body Protection

Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory Protection

Under normal conditions, respirator is not normally required.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Slight solvent
Appearance	Clear Thin red liquid	Odor Threshold	Not determined
Color	Clear red		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	10.9-11.9	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	None to boiling	
Evaporation Rate	Equal to water	
Flammability (Solid, Gas)	Liquid- Not Applicable	
Flammability Limits in Air		
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Equal to water	
Vapor Density	Equal to water	
Relative Density	1.050	
Water Solubility	Completely soluble	
Solubility(ies)	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive under normal conditions.

10.2. Chemical stability

Stable.

10.3. Possibility of Hazardous Reactions**Hazardous Polymerization**

Hazardous polymerization does not occur.

Possibility of Hazardous Reactions

None under normal processing.

10.4. Conditions to Avoid

See Sec. 7 Handling & Storage.

10.5. Incompatible Materials

Strong acids. Strong oxidizers.

10.6. Hazardous Decomposition Products

Burning produces irritating and toxic fumes. Oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on Toxicological Effects****Acute Toxicity****Product Information**

Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not ingest.
Unknown Acute Toxicity	0.91% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

Oral LD50	5,918.00
Units	mg/kg
Dermal LD50	13,409.00
Units	mg/kg
Inhalation	
Gas	99,999.00
Units	mg/L
Mist	18.50
Units	mg/L
Vapor	2,206.00
Units	mg/L

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol Monobutyl Ether	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Monoethanolamine	= 1720 mg/kg (Rat)	= 1 mL/kg (Rabbit) = 1000 mg/kg (Rabbit)	
Sodium metasilicate	= 600 mg/kg (Rat)		
Alcohols, C9-11 ethoxylated	= 1400 mg/kg (Rat) = 1378 mg/kg (Rat)	> 2 g/kg (Rabbit)	
Tetrasodium EDTA	= 1658 mg/kg (Rat) = 10 g/kg (Rat)		

Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/eye irritation	Causes severe eye damage.
Sensitization	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	None known based on information supplied.
Reproductive toxicity	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Symptoms	Please see section 4 of this SDS for symptoms.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Monoethanolamine	15: 72 h Desmodesmus subspicatus mg/L EC50	200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 227: 96 h Pimephales promelas mg/L LC50 flow-through	65: 48 h Daphnia magna mg/L EC50
Ethylene Glycol Monobutyl Ether		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
Sodium metasilicate		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

12.2. Persistence and Degradability

Not determined.

12.3. Bioaccumulative Potential

Chemical Name	Partition Coefficient
Monoethanolamine	-1.91
Ethylene Glycol Monobutyl Ether	0.81

12.4. Mobility in Soil

Mobility

Not determined.

12.5. Results of PBT and vPvB Assessment

Not determined.

12.6. Other Adverse Effects

Not determined.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste from Residues / Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN/ID No UN1760
 14.2 Proper Shipping Name Corrosive liquids, n.o.s. (Monoethanolamine, Sodium Metasilicate)
 14.3 Hazard Class 8
 14.4 Packing Group III

RID

14.1 UN/ID No UN1760
 14.2 Proper Shipping Name Corrosive liquids, n.o.s. (Monoethanolamine, Sodium Metasilicate)
 14.3 Hazard Class 8
 14.4 Packing Group III

ADR

14.1 UN/ID No UN1760
 14.2 Proper Shipping Name Corrosive liquids, n.o.s. (Monoethanolamine, Sodium Metasilicate)
 14.3 Hazard Class 8
 14.4 Packing Group III

ICAO (air)

14.1 UN/ID No UN1760
 14.2 Proper Shipping Name Corrosive liquids, n.o.s. (Monoethanolamine, Sodium Metasilicate)
 14.3 Hazard Class 8
 14.4 Packing Group III

IATA

14.1 UN/ID No UN1760
 14.2 Proper Shipping Name Corrosive liquids, n.o.s. (Monoethanolamine, Sodium Metasilicate)
 14.3 Hazard Class 8
 14.4 Packing Group III

Section 15: REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

National Regulations

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number	Title
Monoethanolamine 141-43-5	RG 49, RG 49bis	
Ethylene Glycol Monobutyl Ether 111-76-2	RG 84	

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

International Inventories

TSCA	All components in this product are listed or exempt from listing
EINECS/ELINCS	-
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS	-
KECL	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R34 - Causes burns

R37 - Irritating to respiratory system

R41 - Risk of serious damage to eyes

R36/38 - Irritating to eyes and skin

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H370 - Causes damage to organs

Classification Procedure

Calculation method

Issue Date: 22-Jul-1996**Revision Date:** 03-Apr-2015**Revision Note:** New format.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 453/2010

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