

SAFETY DATA SHEET

Date Prepared : 04/27/2015

SDS No : 120-01

Date Revised : 02/22/2017

Revision No : 22

Nordson HMC Cleaner

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Nordson HMC Cleaner
GENERAL USE: Hot melt adhesive clean up.
PRODUCT CODE: 1120803 / 1060958

MANUFACTURER

enviro-blend, Inc.
P.O. Box 329
Springfield, TN 37172
Customer Service: 615-382-8215
E-Mail: enviroblend@birch.net

24 HR. EMERGENCY TELEPHONE NUMBERS

ChemTel (US, Canada Transportation) - 1-800-255-3924
(Contract # MIS1186925)

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Acute Hazards to the Aquatic Environment, Category 1
Eye Irritation, Category 2
Skin Irritation, Category 2
Skin Sensitization, Category 1
Flammable Liquids, Category 3

GHS LABEL

Irritant



Exclamation
mark



Flame



Environment

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H226: Flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

P103: Read label before use.

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of water/...
P332+P313: If skin irritation occurs: Get medical advice/attention.
P370+P376: In case of fire: Stop leak if safe to do so.

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Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: None known.

POTENTIAL HEALTH EFFECTS

EYES: Mists may cause moderate transient corneal injury.

SKIN: Repeated or prolonged skin contact may cause skin irritation.

SKIN ABSORPTION: Diethanolamine, contained in this mixture at 2% by weight can be absorbed through the skin.

INGESTION: Can be harmful if ingested

INHALATION: Can be harmful if inhaled. Can Cause respiratory tract irritation.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: None Expected.

CARCINOGENICITY: Not classified as a human carcinogen

MUTAGENICITY: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Citrus Terpenes	≥ 30	94266-47-4
Cocamide Dea	≥ 20	68603-42-9
Modified Polyethoxylated Alcohol	5	68603-25-8
Ethanol, 2-(2-butoxyethoxy)-	1	112-34-5
Glycine, N, N'-1, 2-ethanediybis[n-(carboxymethyl)-	< 2	60-00-4

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water for at least 15 minutes; ensure water flushing of entire surface of eye and lid. Obtain medical attention if irritation persists.

SKIN: Wash thoroughly with soap and water. If material is injected under the skin, get medical attention immediately to prevent serious damage; DO NOT wait for symptoms to develop.

INGESTION: DO NOT induce vomiting. Give large quantities of water, if available give several glasses of milk. Always seek medical advice.

INHALATION: Move to fresh air, provide oxygen if breathing is difficult. Obtain medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Can cause moderate to severe irritation.

SKIN: Repeated or prolonged skin contact may cause skin irritation.

SKIN ABSORPTION: Diethanolamine contained in this mixture at 2% by weight can be absorbed through the skin.

INGESTION: Not expected in industrial use.

INHALATION: May cause dizziness.

5. FIRE FIGHTING MEASURES

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FLAMMABLE CLASS: Combustible.

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: No data available.

EXTINGUISHING MEDIA: Carbon dioxide, Dry chemical or Alcohol type foam.

HAZARDOUS COMBUSTION PRODUCTS: Hazardous decomposition products include carbon dioxide and carbon monoxide.

EXPLOSION HAZARDS: Avoid spraying water directly into storage containers due to damage of boil over.

FIRE FIGHTING PROCEDURES: Treat as a class B liquid after water has evaporated. Use water spray to cool fire exposed surfaces and protect personnel.

FIRE FIGHTING EQUIPMENT: Wear self-contained breathing apparatus with full face piece, operated in pressure demand or other positive pressure mode, and full protective clothing.

FIRE EXPLOSION: None Expected.

SENSITIVE TO STATIC DISCHARGE: No data available.

SENSITIVITY TO IMPACT: NA = Not Applicable

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon when burned.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dike to contain spill. Sweep up with inert material and place in suitable container for disposal.

LARGE SPILL: Stop leak. Dike to contain spill, cover with inert absorbent material, sweep up and place in suitable container(s) for disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Keep spills and cleaning run-off out of municipal sewers and open bodies of water.

LAND SPILL: No data available.

AIR SPILL: No data available.

SPECIAL PROTECTIVE EQUIPMENT: See section 8

7. HANDLING AND STORAGE

HANDLING: Keep away from heat and flame.

STORAGE: Keep container tightly closed in a dry and well-ventilated area.

STORAGE TEMPERATURE: Store in a cool place below 120 F (49 C) and above 32 F (0 C)

LOADING TEMPERATURE: NA = Not Applicable

LOADING/UNLOADING VISCOSITY: No data available.

STORAGE PRESSURE: No data available.

SHELF LIFE: 48 months from date of purchase.

SPECIAL SENSITIVITY: No data available.

ELECTROSTATIC ACCUMULATION HAZARD: No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m ³
Citrus Terpenes	ACGIH TLV	TWA	20	
Ethanol, 2-(2-butoxyethoxy)-	ACGIH TLV	TWA	10.0 [1]	[1]
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL

Footnotes:
1. Liver, Kidney and Hematologic effects.

ENGINEERING CONTROLS: Local exhaust is recommended when handling generated mists and vapors.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE:

Wear safety glasses or splash goggles.

SKIN: Wear protective clothing, including long sleeves and impervious gloves, to prevent skin contact.

RESPIRATORY: None required for normal operation. Use an approved respirator when exposure to vapors of mists is anticipated.

PROTECTIVE CLOTHING: Impervious clothing. The type of protective clothing must be selected according to the concentration and amount of the product handled at the specific workplace.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

OTHER USE PRECAUTIONS: There should be an eye wash close by.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Citrus

ODOR THRESHOLD: No data available.

APPEARANCE: Clear

COLOR: Light to dark amber.

pH: ~ 10.0

PERCENT VOLATILE: 50

FLASH POINT AND METHOD: ~ 51.6°C (125°F) TCC

FLAMMABLE LIMITS: 0.7 to 6.1

VAPOR PRESSURE: No data available.

VAPOR DENSITY: No data available.

BOILING POINT: > 212 F (100 C)

FREEZING POINT: < 32 F (0 C)

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MELTING POINT: NA = Not Applicable**POUR POINT:** No data available.**THERMAL DECOMPOSITION:** No data available.**SOLUBILITY IN WATER:** Water extendable**EVAPORATION RATE:** > 1.0**SPECIFIC GRAVITY:** 0.95**VISCOSITY:** No data available.**(VOC):** ≥ 28.5 weight**WEIGHT PER VOLUME:** 7.9 lb/gal.

10. STABILITY AND REACTIVITY

REACTIVITY: Not Established**HAZARDOUS POLYMERIZATION:** Will not occur under normal use conditions.**STABILITY:** Stable under normal use conditions,**CONDITIONS TO AVOID:** Excessive heat, sparks and open flames.**POSSIBILITY OF HAZARDOUS REACTIONS:** If stored and handled properly: none known.**HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal use conditions, oxides of carbon when burned.**INCOMPATIBLE MATERIALS:** No data available.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Citrus Terpenes	> 5000 mg/kg rabbit	> 5000 mg/kg - rabbit	1 mg/l Rat (RD 50)
Ethanol, 2-(2-butoxyethoxy)-	≥ 7291 mg/kg - rat	≥ 1764 mg/kg - rabbit	

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status	General Toxicity
Cocamide Dea	No data available.	Monographs, Overall Evaluation of Carcinogenicity - 2B Possibly carcinogenic to humans. Monographs: Evidence of carcinogenicity in humans - No data.	Suspect of causing cancer.	May be harmful if swallowed. May be harmful in contact with skin. May cause an allergic skin reaction.
Modified Polyethoxylated Alcohol				This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

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ECOTOXICOLOGICAL INFORMATION: Toxic to aquatic life. Current knowledge indicates no adverse effects on water purification plants.

BIOACCUMULATION/ACCUMULATION: Not yet Determined

DISTRIBUTION: Not Established

AQUATIC TOXICITY (ACUTE)

: .702 mg/l (fathead minnow)

: .36 mg/L (daphnia magna)

Notes: Test results listed above are for Citrus Terpenes (94266-47-4) The product as formulated has not undergone any toxicological testing.

CHEMICAL FATE INFORMATION: Readily biodegradable.

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

EMPTY CONTAINER:

offer to licensed container recycler.

RCRA/EPA WASTE INFORMATION: Ignitable waste (Citrus Terpenes)

RCRA HAZARD CLASS: D001

EUROPEAN WASTE CATALOGUE: None

GENERAL COMMENTS: Material should be disposed of in accordance to current local and national regulations. It is the responsibility of the user to determine at time of disposal whether a product or solution meets regulatory criteria for hazardous waste, as mixing, use, contamination or soils may render the resultant mixture hazardous.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Flammable Liquid n.o.s. (contains Citrus Terpenes)

PRIMARY HAZARD CLASS/DIVISION: NA = Not Applicable

UN/NA NUMBER: 1993

PACKING GROUP: III

U.S. SURFACE FREIGHT CLASS: NA = Not Applicable

BULK FREIGHT CLASS: NA = Not Applicable

MARINE POLLUTANT #1: NA = Not Applicable

OTHER SHIPPING INFORMATION: Non-hazardous when in non-bulk packages not exceeding 119 gallons each per CFR 173.150 (f)

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Flammable Liquid n.o.s. (contains Citrus Terpenes)

UN NUMBER: 1993

HAZARD CLASS: Class 3

PACKING GROUP: III

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SPECIAL PROVISIONS: Flammable Liquid n.o.s. (contains Citrus Terpenes)

AIR (ICAO/IATA)

SHIPPING NAME: Flammable Liquid n.o.s. (contains Citrus Terpenes)

UN/NA NUMBER: 1998

PRIMARY HAZARD CLASS/DIVISION: Class 3

PACKING GROUP: 111

SPECIAL PROVISIONS: Flammable Liquid n.o.s. (contains Citrus Terpenes)

VESSEL (IMO/IMDG)

SHIPPING NAME: Flammable Liquid n.o.s. (contains Citrus Terpenes)

UN/NA NUMBER: 1998

PRIMARY HAZARD CLASS/DIVISION: Class 3

PACKING GROUP: III

SPECIAL PROVISIONS: Flammable Liquid n.o.s. (contains Citrus Terpenes)

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Flammable Liquid n.o.s. (contains Citrus Terpenes)

UN/NA NUMBER: 1993

PRIMARY HAZARD CLASS/DIVISION: Class 3

PACKING GROUP: III

COMMENTS: The listed transportation classifications do not address any regulatory variations due to changes in package size, mode of shipment or other regulatory descriptions.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS	Comments
Cocamide Dea	≥ 20	68603-42-9	Diethanolamine (CAS 111-42-2).
Ethanol, 2-(2-butoxyethoxy)-	1	112-34-5	

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Cocamide Dea	≥ 20	
Glycine, N, N'-1, 2-ethanediybis[n-(carboxymethyl)-	< 2	5,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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Chemical Name	CAS	TSCA SECTION
Citrus Terpenes	94266-47-4	
Cocamide Dea	68603-42-9	
Modified Polyethoxylated Alcohol	68603-25-8	
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	12b,
Glycine, N, N'-1, 2-ethanediylbis[n-(carboxymethyl)-	60-00-4	

TSCA STATUS: All components listed. CAS# 94266-47-4 listed as CAS# 5989-57-5 (d-Limonene)

CALIFORNIA PROPOSITION 65

Chemical Name	Wt.%	Listed
Cocamide Dea	≥ 20	<ul style="list-style-type: none"> • Cancer • Developmental Toxicity

RCRA STATUS: NA = Not Applicable

CANADA

WHMIS HAZARD SYMBOL AND CLASSIFICATION



Combustible
Liquid

DOMESTIC SUBSTANCE LIST (INVENTORY): All component products are listed in DSL inventory

16. OTHER INFORMATION

REASON FOR ISSUE: GHS Format

APPROVED BY: JBV

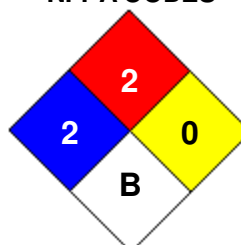
PREPARED BY: Environmental **Date Revised:** 02/22/2017

REVISION SUMMARY: This SDS replaces the 10/31/2016 SDS. Revised: **Section 13:** RCRA/EPA WASTE INFORMATION, RCRA HAZARD CLASS. **Section 14:** AIR (ICAO/IATA) (PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP, UN/NA NUMBER), DOT (DEPARTMENT OF TRANSPORTATION) - OTHER SHIPPING INFORMATION VESSEL (IMO/IMDG) (PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP, UN/NA NUMBER).

HMIS RATING

HEALTH	□	2
FLAMMABILITY	□	2
PHYSICAL HAZARD	□	0
PERSONAL PROTECTION	□	B

NFPA CODES



DATA SOURCES: The SDS is compiled using supplied product information and SDS information from the manufacturers of the

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raw materials used in the formulation of this product.

ADDITIONAL SDS INFORMATION: The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and / or websites. Not all acronyms and abbreviations listed below have been incorporated in the Safety Data Sheet

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

ADN: European Agreement concerning the international carriage of dangerous goods by inland waterways (ADN)

ADNR: ADN Specific for the Rhine

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ASTM: American Society for Testing and Materials

BEL: Biological Exposure Limits

BTEX: Benzene, Toluene, Ethylbenzene, Xylenes

CAS: Chemical Abstracts Services

CEFIC: European Chemical Industry Council

CLP: Classification Packaging and Labelling.

COC: Cleveland Open-Cup

DIN: Deutsched Institute fur Normung

DMEL: Derived Minimal effect Level

DNEL: Derived No Effect Level

DSL: Canada Domestic Substance List

EC: European Commission

EC50): Effective Concentration Fifty

ECETOC: European Center on Ecotoxicology and Toxicology of Chemicals

ECHA: European Chemicals Agency

EINECS: The European Inventory of Existing Commercial Chemical Substances

EL50): Effective Loading Fifty

ENCS: Japanese Existing and New Chemical Substances Inventory

EWC: European Waste Code

GHS: Globally Harmonised system of Classification and Labelling of Chemicals

DMSO: Dimethyl Sulfoxide

EU: European Union

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IC50: Inhibitory Concentration 50

IL50: Inhibitory Level Fifty

IMDG: International Maritime Dangerous Goods

INV: Chinese Chemicals Inventory

IP346: Institute of Petroleum Test Method N0 346 for the determination of polycyclic aromatics DMSO-extractables

KECI: Korea Existing Chemicals Inventory

LC50: Lethal Concentration Fifty

LD50: Lethal Dose Fifty

LL/EL/IL: Lethal Loading/Effective Loading/ Inhibitory Loading

LL50: Lethal Loading 50

MARPOL: International Convention for the Prevention of Pollution from Ships

NIOSH: National Institute of Occupational Safety and Health

NOEC/NOEL: No observed Effect Concentration / No observed Effect Level

NOHSC: National Occupational Health and Safety Commission

OE_HP: Occupational Exposure - High Production Volume

PBT: Persistent, Bioaccumulative and Toxic

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PICCS: Philippine Inventory of Chemicals and Chemical Substances

PNEC: Predicted No Effect Concentration

REACH: Registration Evaluation and Authorization of Chemicals

RID: Regulations Relating to International Carriage of Dangerous Goods by Rail

SKIN_DES: Skin Designation

STEL: Short Term Exposure Limit

TRA: Targeted Risk Assessment

TREGS: Technical Rules for Hazardous Substances

TSCA: US Toxic Substances Control Act

TWA: Time-Weighted Average

vPvB: Very Persistent and Very Bioaccumulative

NTP: United Nations Toxicology Program.

OSHA: Occupational Safety and Health Act.

HMIS: Hazardous Materials Identification System.

NFPA: National Fire Protection Association.

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