

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

Date Issued : 04/27/2015  
 SDS No : 120-01  
 Date Revised : 02/22/2017  
 Revision No : 22

## Nordson HMC Cleaner

### SECTION 1 : Identification of the substance/preparation and of the company/undertaking

#### 1.1. Product identifier

Product code : 1120803 / 1060958  
 Product name : Nordson HMC Cleaner

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Hot melt adhesive clean up.

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

enviro-blend, Inc.  
 P.O. Box 329  
 Springfield, TN 37172

Service Number : 615-382-8215  
 E-Mail : enviroblend@birch.net

#### 1.4. Emergency telephone number

ChemTel (US, Canada Transportation) - 1-800-255-3924 (Contract # MIS1 186925)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [CLP]

**Health** : Eye Irritation, Category 2  
 Skin Irritation, Category 2  
 Skin Sensitization, Category 1

**Environmental** : Aquatic Toxicity, Category 3

**Physical** : Flammable Liquids, Category 3

#### 2.2. Label elements

Irritant

##### Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictogram(s) :



Signal Word : WARNING

Hazard statement(s) : H226: Flammable liquid and vapour.  
 H315 + H320: Causes skin and eye irritation.  
 H400: Very toxic to aquatic life.  
 H317: May cause an allergic skin reaction.  
 H410: Very toxic to aquatic life with long lasting effects.  
 H319: Causes serious eye irritation.

Precautionary statement(s)

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**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.

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

### 2.3. Other hazards

**Immediate concerns** : None known.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

Not Applicable

### 3.2. Mixtures

Chemical Name	CAS	EINECS No.	Wt. %	Classification according to Regulation (EC) No 1272/2008 [CLP]
Citrus Terpenes	94266-47-4	304-453-3	≥ 30	Flam. Liq., Cat. 3; Skin Irr., Cat. 2; Aquatic Acute, Cat. 1; Skin Sens., Cat. 1; Aquatic Chronic, Cat. 1; H226; H315; H317; H400; H410
Cocamide Dea	68603-42-9	271-657-0	≥ 20	Skin Irr., Cat. 2; Eye Irr., Cat. 2; H315; H319
Modified Polyethoxylated Alcohol	68603-25-8	N/A -	5	Skin Corr., Cat. 2; Eye Irr., Cat. 2; H315 + H320
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	203-961-6	1	Eye Irr., Cat. 2A; H319
Glycine, N, N'-1, 2-ethanediybis[n-(carboxymethyl)-	60-00-4	200-449-4	< 2	Eye Irr., Cat. 2; H319

For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Following 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.

**Following 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.

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

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

### 4.2. Most important symptoms and effects, both acute and delayed

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<b>Eyes</b>	: Can cause moderate to severe irritation.
<b>Skin</b>	: Repeated or prolonged skin contact may cause skin irritation.
<b>Skin absorption</b>	: Diethanolamine contained in this mixture at 2% by weight can be absorbed through the skin.
<b>Ingestion</b>	: Not expected in industrial use.
<b>Inhalation</b>	: May cause dizziness.

### 4.3. Indication of any immediate medical attention and special treatment needed

## SECTION 5: Fire fighting measures

### 5.1. Extinguishing media

**Extinguishing media** : Carbon dioxide, Dry chemical or Alcohol type foam.

### 5.2. Special hazards arising from the substance or mixture

**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 explosion** : None Expected.

**Sensitive to static discharge** : No data available.

**Sensitivity to impact** : NA = Not Applicable

### 5.3. Advice for firefighters

**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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Special protective equipment** : See section 8

### 6.2. 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.

### 6.3. Methods and material for containment and cleaning up

**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.

### 6.4. Reference to other sections

## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

**Handling** : Keep away from heat and flame.  
**Storage** : Keep container tightly closed in a dry and well-ventilated area.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage temperature** : Store in a cool place below 120 F (49 C) and above 32 F (0 C)  
**Electrostatic accumulation hazard** : No data available.  
**Shelf life** : 48 months from date of purchase.  
**Special sensitivity** : No data available.

### 7.3. Specific end use(s)

**Specific end use(s)** : Cleaner

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

**Engineering controls** : Local exhaust is recommended when handling generated mists and vapors.  
**Eye/face protection** :  
 Wear safety glasses or splash goggles.  
**Skin protection** : Wear protective clothing, including long sleeves and impervious gloves, to prevent skin contact.  
**Respiratory protection** : 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 precautions** : There should be an eye wash close by.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** : Liquid  
**Appearance** : Clear  
**Colour** : Light to dark amber.  
**Odour** : Citrus  
**Odour threshold** : No data available.  
**pH** : ~ 10.0  
**Melting temperature** : NA = Not Applicable  
**Freezing temperature** : < 32 F (0 C)  
**Boiling temperature** : > 212 F (100 C)

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Flash point : ~ 51.6°C (125°F) TCC  
 Evaporation rate : > 1.0  
 Flammable limits : 0.7 to 6.1  
 Vapor pressure : No data available.  
 Vapor density : No data available.  
 Specific gravity : 0.95  
 Solubility in water : Water extendable  
 Thermal decomposition : No data available.  
 Viscosity : No data available.  
 Pour point : No data available.  
 Weight per volume : 7.9 lb/gal.

### 9.2. Other information

Percent volatile : 50  
 (VOC) : ≥ 28.5 weight

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity : Not Established

### 10.2. Chemical stability

Chemical stability : Stable under normal use conditions,

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions : If stored and handled properly: none known.  
 Hazardous polymerization : Will not occur under normal use conditions.

### 10.4. Conditions to avoid

Conditions to avoid : Excessive heat, sparks and open flames.

### 10.5. Incompatible materials

Incompatible materials : No data available.

### 10.6. Hazardous decomposition products

Hazardous decomposition products : None under normal use conditions, oxides of carbon when burned.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
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	

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### Carcinogenicity

Chemical Name	IARC Status	General Toxicity
Cocamide Dea	<p>Monographs, Overall Evaluation of Carcinogenicity - 2B Possibly carcinogenic to humans.</p> <p>Monographs: Evidence of carcinogenicity in humans - No data.</p>	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

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

#### 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.

#### 12.2. Persistence and degradability

**Persistence and degradability** : Readily biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : Not yet Determined

#### 12.4. Mobility in soil

**Mobility in soil** : Not Established

#### 12.5. Results of PBT and vPvB assessment

#### 12.6. Other adverse effects

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

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**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.

**Waste codes** : None

**General comments** : Material should be disposed of in accordance to current local and national

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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.

### SECTION 14: Transport information

#### 14.1. UN number

UN number : 1993

Custom tariff number : N/A

#### 14.2. UN proper shipping name

UN proper shipping name : Combustible Liquid n.o.s. (contains Citrus Terpenes)

#### 14.3. Transport hazard class(es)

Primary hazard class/division : NA = Not Applicable

Hazard classification : Class 3

#### 14.4. Packing group

Packing group : III

#### 14.5. Environmental hazards

Marine pollutant #1 : NA = Not Applicable

#### 14.6. Special precautions for user

ADR - road : Flammable Liquids n.o.s. (contains Citrus Terpenes)

RID - rail : Flammable Liquids n.o.s. (contains Citrus Terpenes)

IMDG - sea : Flammable Liquid n.o.s. (contains Citrus Terpenes)

IATA - air : Flammable Liquids n.o.s. (contains Citrus Terpenes)

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2. Chemical safety assessment

### SECTION 16: Other information

Relevant H-statements (number and full text) : Aquatic Acute, Cat. 1: Acute Hazards to the Aquatic Environment, Category 1  
 Aquatic Chronic, Cat. 1: Chronic Hazards to the Aquatic Environment, Category 1  
 Eye Irr., Cat. 2A: Eye Irritation, Category 2A  
 Eye Irr., Cat. 2: Eye Irritation, Category 2  
 Flam. Liq., Cat. 3: Flammable Liquids, Category 3  
 Skin Corr., Cat. 2: Skin Corrosion, Category 2  
 Skin Irr., Cat. 2: Skin Irritation, Category 2  
 Skin Sens., Cat. 1: Skin Sensitization, Category 1  
 H226: Flammable liquid and vapour.

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H315 + H320: Causes skin and eye irritation.  
 H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H400: Very toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.

**Reason for issue** : GHS Format

**Approved by** : JBV

**Prepared by** : Environmental

**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 ).

**Data sources** : The SDS is compiled using supplied product information and SDS information from the manufacturers of the 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 Hygenists  
 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



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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\_HPVS: Occupational Exposure - High Production Volume  
 PBT: Persistent, Bioaccumulative and Toxic  
 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.

### Manufacturer disclaimer

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