SAFETY DATA SHEET

1. Identification

Product identifier **CONDACLEAN NF - US**

Other means of identification

Product code NC00205

Recommended use See Technical Data Sheet.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name	CONDAT CORPORATION	
Address	250 South Industrial Saline, MI 48176 United States	
Telephone	Tel:	+1 734-944-4994
Website	www.condatcorp.com	
E-mail	arp-us@condatcorp.com	
Contact person	ARP Dpt.	
Emergency phone number	Emergency Tel. (24h):	+1 734-944-4994

2. Hazard(s) identification

Classification according to the OSHA 29 CFR 1910.1200 (HCS 2012) and the Canadian Hazardous Products Regulations (WHMIS 2015)

Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
OSHA/HPR defined hazards	Not classified.	

Label elements



Signal word Warning

Hazard statement May be corrosive to metals. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response If on skin: Wash with plenty of water/. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Absorb spillage to prevent material damage.

Storage Store in corrosive resistant/ container with a resistant inner liner.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2,2',2''-nitrilotriéthanol		102-71-6	2.5 - 10
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE		12179-04-3	2.5 - 10
Propane-1,2-diol		57-55-6	2.5 - 10
Tetrasodium ethylenediaminetetraacetate		64-02-8	1 - 2.5

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments	Occupational Exposure Limits for constituents are listed in Section 8.

4. First-aid measures

Inhalation	Move to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or poison control center immediately.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Not applicable, non-combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Not applicable, non-combustible.
Specific hazards arising from the chemical	None known. See also section 10.
Special protective equipment and precautions for firefighters	None (non-combustible).
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes.
Specific methods	In the event of fire and/or explosion do not breathe fumes.
General fire hazards	None known.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	This product is miscible in water. Prevent entry into waterways, sewer, basements or confinec areas. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands after handling. Handle in accordance with good industrial hygiene and safety practice. Adequate ventilation should be provided so that exposure limits are not exceeded.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store in closed original container in a dry place. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep from freezing.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
2,2',2"-nitrilotriéthanol (CAS 102-71-6)	TWA	5 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)	TWA	1 mg/m3

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
Propane-1,2-diol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
2,2',2"-nitrilotriéthanol (CAS 102-71-6)	TWA	5 mg/m3
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)	STEL	3 ppm
	TWA	1 mg/m3

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
2,2',2"-nitrilotriéthanol (CAS 102-71-6)	TWA	5 mg/m3	
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)	STEL	6 mg/m3	Inhalable

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
	TWA	2 mg/m3	Inhalable

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
2,2',2"-nitrilotriéthanol (CAS 102-71-6)	TWA	5 mg/m3	
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
2,2',2"-nitrilotriéthanol (CAS 102-71-6)	TWA	3.1 mg/m3	
		0.5 ppm	
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Propane-1,2-diol (CAS 57-55-6)	TWA	155 mg/m3	Vapor and aerosol, inhalable fraction.
		10 mg/m3	Aerosol.
		50 ppm	Vapor and aerosol, inhalable fraction.

Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
2,2',2"-nitrilotriéthanol (CAS 102-71-6)	TWA	5 mg/m3
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)	TWA	1 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection Use protective gloves made of: Nitrile. Polyvinyl chloride (PVC). Suitable gloves can be recommended by the glove supplier.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance See below.

Physical state Liquid.

Form Liquid.

Color	Colorless
Odor	Not available.
Odor threshold	Not available.
pH	10
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.1
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not available.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	May be corrosive to metals.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Avoid frost.
Incompatible materials	Strong oxidizing agents. Metals. Peroxides. Phenols.
Hazardous decomposition products	Nitrogen compounds.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. When workers are facing concentrations above the exposure limit,
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	See the subsection "Reproductive toxicity" of the SDS for additional information.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Causes skin burns.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

Reproductive toxicity Suspected of damaging fertility or the unborn child.
Contains Tetraborates, Sodium salts, pentahydrate (CAS N° 12179-04-3):
Classified as Reproductive Toxicant Cat. 2 - Suspected of damaging fertility or the unborn child.

Based on ANIMAL feeding studies, the Tetraborates, Sodium salts, pentahydrate may cause adverse effects on fertility in males and adverse developmental effects on the foetus:
- For effects on fertility in males: Oral feeding study, in rats (similar to OECD 416): NOAEL* = 118 mg sodium tetraborate pentahydrate/kg bw/day;
- For developmental effects on the foetus: Oral feeding study, in rats (similar to OECD 414): NOAEL* = 64.7 mg sodium tetraborate pentahydrate/kg bw/day;
*NOAEL = No Observed Adverse Effect Level

The HUMAN epidemiological studies of occupational exposure to borate dust showed no adverse effect to reproduction.
This product contains less than 6.5% of Tetraborates, Sodium salts, pentahydrate (CAS N° 12179-04-3). In European Union, in compliance with the Regulation No 1272/2008 – Annex VI, this product is not classified as a Reproductive Toxicant.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2,2',2"-nitrilotriéthanol	-1
Propane-1,2-diol	-0.92

Mobility in soil No data available.

Mobility in general This product is miscible in water.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code	D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN3267
UN proper shipping name	Corrosive liquid, basic, organic, n.o.s. (Ethylenediaminetriacetic, trisodium salt (ED3ANa3))
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	154
Packaging non bulk	203
Packaging bulk	241

IATA

UN number	UN3267
UN proper shipping name	Corrosive liquid, basic, organic, n.o.s.
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number	UN3267
UN proper shipping name	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

TGD

UN3267
8
III
•
Read safety instructions, SDS and emergency procedures before handling.
16
Read safety instructions, SDS and emergency procedures before handling.

DOT



IATA; IMDG; TDG



15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All the components of this product comply with the U.S. EPA TSCA inventory requirements.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US - New Jersey RTK - Substances: Listed substance

2,2',2''-nitrilotriéthanol (CAS 102-71-6)
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)
Propane-1,2-diol (CAS 57-55-6)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)

US. Massachusetts RTK - Substance List

2,2',2''-nitrilotriéthanol (CAS 102-71-6)
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

2,2',2''-nitrilotriéthanol (CAS 102-71-6)
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)
Propane-1,2-diol (CAS 57-55-6)

US. Pennsylvania Worker and Community Right-to-Know Law

2,2',2''-nitrilotriéthanol (CAS 102-71-6)
BORATES, TETRA, SODIUM SALTS, PENTAHYDRATE (CAS 12179-04-3)
Propane-1,2-diol (CAS 57-55-6)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material contains a component classified as Reproductive Toxicant (Tetraborates, Sodium salts, pentahydrate) according to the HazCom 2012 criteria but not known to be LISTED IN THE Prop.65 list as carcinogens or reproductive toxins.

16. Other information, including date of preparation or last revision

Issue date	05-29-2015
Revision date	04-23-2018
Version #	3.1
Disclaimer	This document complements the technical sheets but does not replace them. The information contained herein is based on our knowledge of the concerned product on the date indicated. It is offered in good faith. Furthermore, the regulatory requirements referred to must not be considered as exhaustive. They do not exempt in any form the user from knowing and applying all regulations related to the possession and use of the product. The user takes as their sole responsibility the implementation of precautions relating to storage and their use of the product. The information in the sheet was written based on the best knowledge and experience currently available