NuBlend NEMESIS Tuberculocidal Spray & Wipe

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/19/2020 Revision date: 03/19/2020 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product code : 7077ABS; EPA REG NO 1839-83-72026

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Disinfectant

1.3. Supplier

Nuance Solutions
900 E 103rd Street
Suite D
Chicago, IL - United States
T 773-785-2300
regulatory@nuancesolutions.com - www.nuancesolutions.com

1.4. Emergency telephone number

Emergency number : 1-800-535-5053
For Chemical Emergency Call INFOTRAC 24hr/day 7days/week
Within USA and Canada: 1-800-535-5053
Outside USA and Canada: 011-1-352-323-3500
(collect calls accepted)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 1 H314 Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1 H318 Causes serious eye damage

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage

Precautionary statements (GHS US) : P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
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
P321 - Specific treatment (see supplemental first aid instruction on this label)
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
DIETHYLENE GLYCOL MONOBUTYL ETHER	(CAS-No.) 112-34-5	5 - 10
TETRA SODIUM EDTA	(CAS-No.) 64-02-8	1 - 5

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center/doctor/physician if you feel unwell. If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Wash skin with plenty of water. Soap may be used. Take victim to a doctor if irritation persists.

First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion : If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting because of corrosive effects. Rinse mouth out with water. Give nothing or a little water to drink.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms : Causes serious eye damage. Causes severe skin burns. Harmful if swallowed.

Symptoms/effects after inhalation : None under normal use.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact : Causes serious eye burns.

Symptoms/effects after ingestion : Harmful if swallowed. Nausea. Vomiting.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment for surrounding fires. Dry chemical, CO2, or water spray or regular foam.

5.2. Specific hazards arising from the chemical

Fire hazard : Non-flammable.

Explosion hazard : No direct explosion hazard.

Reactivity in case of fire : In case of fire: possible release of toxic/corrosive gases/vapours.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. Evacuate area. Cool tanks/drums with water spray/remove them into safety. Contain the extinguishing fluids by bunding. Take account of environmentally hazardous firefighting water.

Protection during firefighting : Wear recommended personal protective equipment. Do not attempt to take action without suitable protective equipment. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not handle until all safety precautions have been read and understood. Absorb spillage to prevent material-damage. Avoid contact with skin and eyes. Clean up any spills as soon as possible, using an absorbent material to collect it. May be harmful to aquatic organisms, to flora, to soil organisms.

6.1.1. For non-emergency personnel

Protective equipment	:	Wear recommended personal protective equipment. Protective goggles. Protective clothing. Gloves.
Emergency procedures	:	Avoid contact with skin and eyes. Evacuate unnecessary personnel. Keep containers closed. Notify experts.

6.1.2. For emergency responders

Protective equipment	:	Wear recommended personal protective equipment. Safety glasses. Protective gloves. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	:	Cover spill with non combustible material, e.g.: sand/earth. Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Do not allow product to spread into the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	:	Absorb spilled material with sand or earth. Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Consult an expert on waste disposal or treatment.
Methods for cleaning up	:	Absorb remaining liquid with sand or inert absorbent and remove to safe place. Absorb spillage to prevent material-damage. Carefully collect the spill/leftovers.
Other information	:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	:	Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	:	Comply with the legal requirements. Avoid contact with skin and eyes. Clean contaminated clothing.
Hygiene measures	:	Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Comply with applicable regulations.
Storage conditions	:	Keep container closed when not in use. Keep only in original container. Store in a dry place. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

NuBlend NEMESIS Tuberculocidal Spray & Wipe
No additional information available

TETRA SODIUM EDTA (64-02-8)
No additional information available

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Diethylene glycol monobutyl ether
ACGIH TWA (ppm)	10 ppm (Inhalable fraction and vapor)
Remark (ACGIH)	TLV® Basis: Hematologic, liver & kidney eff
Regulatory reference	ACGIH 2019

8.2. Appropriate engineering controls

Appropriate engineering controls	:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Keep in a cool place.
Environmental exposure controls	:	Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Wear recommended personal protective equipment.

Skin and body protection:

Protective clothing. Corrosion-proof clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid.
Color	:	Colorless
Odor	:	Characteristic odour
Odor threshold	:	No data available
pH	:	12 - 13
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

TETRA SODIUM EDTA (64-02-8)	
LD50 oral rat	3030 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
ATE US (oral)	3030 mg/kg body weight

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)	
LD50 dermal rabbit	2764 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal, 14 day(s))
ATE US (oral)	2410 mg/kg body weight
ATE US (dermal)	2764 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 12 - 13

Serious eye damage/irritation : Causes serious eye damage.
pH: 12 - 13

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

TETRA SODIUM EDTA (64-02-8)	
LOAEC (inhalation,rat,dust/mist/fume,90 days)	0.015 mg/l air Animal: rat, Animal sex: female, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (oral,rat,90 days)	>= 500 mg/kg body weight Animal: rat
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)	
NOAEL (oral,rat,90 days)	250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Potential Adverse human health effects and symptoms : Causes serious eye damage. Causes severe skin burns. Harmful if swallowed.

Symptoms/effects after inhalation : None under normal use.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact : Causes serious eye burns.

Symptoms/effects after ingestion : Harmful if swallowed. Nausea. Vomiting.

SECTION 12: Ecological information

12.1. Toxicity

TETRA SODIUM EDTA (64-02-8)	
LC50 fish 1	121 mg/l (96 h, Lepomis macrochirus, Literature study, Soft water)
LC50 fish 2	> 100 mg/l 96 hr Pimephales promelas

TETRA SODIUM EDTA (64-02-8)	
LC50 other aquatic organisms 2	157 - 2070 96 hr Lepomis macrochirus
LOEC (chronic)	50 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	>= 25.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)	
LC50 fish 1	1300 mg/l (Equivalent or similar to OECD 203, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	> 100 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 (algae)	1101 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)

12.2. Persistence and degradability

TETRA SODIUM EDTA (64-02-8)	
Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O_2/g substance
Chemical oxygen demand (COD)	0.54 - 0.58 g O_2/g substance

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

TETRA SODIUM EDTA (64-02-8)	
Log Pow	-2.6
Bioaccumulative potential	Not bioaccumulative.

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)	
Log Pow	1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5)	
Surface tension	27 mN/m (25 °C, 0.00212 mol/g)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

FIFRA Labelling	
EPA Registration Number	1839-83-72026
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.	
FIFRA Signal Word	**Caution**
FIFRA Precautionary Statement	Keep out of reach of children.

15.2. International regulations

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 03/19/2020

Full text of H-phrases:

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : B

B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.