

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

SECTION 1. IDENTIFICATION

Product name : XC-0246

Manufacturer or supplier's details

Company name of supplier	: Huntsman International LLC
Address	: P.O. Box 4980 The Woodlands, TX 77387 United States of America (USA)
Telephone	: TechInfo: (281) 719-7780
E-mail address of person responsible for the SDS	: Global_Product_EHS_HPP@huntsman.com
Emergency telephone number	: Chemtrec: (800) 424-9300 or (703) 527-3887

Recommended use of the chemical and restrictions on use

Recommended use : Component of a Polyurethane System.

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Flammable liquids	: Category 4
Acute toxicity (Oral)	: Category 4
Skin corrosion	: Category 1B
Serious eye damage	: Category 1
Skin sensitisation	: Category 1
Short-term (acute) aquatic hazard	: Category 3

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements	: H227 Combustible liquid. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H402 Harmful to aquatic life.
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XC-0246

Version 1.1 Revision Date: 06/14/2019 SDS Number: 400001004904 Date of last issue: 08/01/2016
Date of first issue: 08/01/2016

Print Date 09/30/2020

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing must not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
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 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
Disposal:
P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol	63469-23-8	50 - 70
3-aminopropyldimethylamine	109-55-7	10 - 20
Triethylenediamine	280-57-9	3 - 5

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

SECTION 4. FIRST AID MEASURES

- | | |
|---|--|
| General advice | : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Treat symptomatically.
Get medical attention if symptoms occur. |
| If inhaled | : If inhaled, remove to fresh air.
Get medical attention if symptoms occur. |
| In case of skin contact | : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes. |
| In case of eye contact | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : None known. |
| Notes to physician | : Treat symptomatically. |

SECTION 5. FIREFIGHTING MEASURES

- | | |
|--------------------------------------|---|
| Suitable extinguishing media | : Carbon dioxide (CO ₂) |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during firefighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion | : Carbon oxides |

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

products

Nitrogen oxides (NO_x)
Carbon dioxide (CO₂)
Carbon monoxide

Specific extinguishing methods : No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Neutralise with acid.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
To avoid spills during handling keep bottle on a metal tray.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma,

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

- Conditions for safe storage : No smoking.
Keep in a well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Keep in properly labelled containers.
- Materials to avoid : For incompatible materials please refer to Section 10 of this SDS.
- Further information on storage stability : Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: light yellow
Odour	: amine-like
Odour Threshold	: No data available
pH	: 11.3
Melting point	: No data available
Boiling point	: 244 °F / 118 °C
Flash point	: 144 °F / 62 °C Method: Pensky-Martens closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data is available on the product itself.
Flammability (liquids)	: No data is available on the product itself.
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: soluble in cold water
Solubility in other solvents	: not determined
Partition coefficient: n-octanol/water	: No data is available on the product itself.
Auto-ignition temperature	: No data is available on the product itself.
Thermal decomposition	: No data is available on the product itself.
Self-Accelerating decomposition temperature (SADT)	: No data is available on the product itself.

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: 18 mm ² /s (104 °F / 40 °C)
Explosive properties	: No data is available on the product itself.
Oxidizing properties	: No data is available on the product itself.
Particle size	: No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Incompatible with oxidizing agents. Metals Acids Bases
Hazardous decomposition products	: carbon monoxide carbon dioxide Nitrogen oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: No data is available on the product itself.
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Acute toxicity

Acute oral toxicity - Product	: Acute toxicity estimate : 1,210 mg/kg Method: Calculation method
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Components:

Triethylenediamine:	
Acute inhalation toxicity	: LC50 (Rat): > 20.2 mg/l Exposure time: 1 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity - Product	: Acute toxicity estimate : 3,416 mg/kg Method: Calculation method
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XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation**Components:**

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Species: Rabbit

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.

3-aminopropyldimethylamine:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Causes burns.

Triethylenediamine:

Species: Rabbit

Assessment: Irritant

Result: Irritating to skin.

Serious eye damage/eye irritation**Components:**

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Species: Rabbit

Result: Risk of serious damage to eyes.

Assessment: Corrosive

Method: OECD Test Guideline 405

3-aminopropyldimethylamine:

Species: Rabbit

Result: Irreversible effects on the eye

Assessment: Risk of serious damage to eyes.

Method: OECD Test Guideline 404

Triethylenediamine:

Species: Rabbit

Result: Irreversible effects on the eye

Assessment: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

Respiratory or skin sensitisation**Components:**

3-aminopropyldimethylamine:

Exposure routes: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: The product is a skin sensitiser, sub-category 1B.

Exposure routes: Respiratory Tract

Species: Humans

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

Result: Does not cause respiratory sensitisation.

Triethylenediamine:

Exposure routes: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Assessment: No data available

Germ cell mutagenicity**Components:**

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

3-aminopropyldimethylamine:

Genotoxicity in vitro : Concentration: 0 - 300 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test Type: Ames test
Concentration: 0 - 10000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Concentration: 0 - 715.4 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Triethylenediamine:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Components:

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Genotoxicity in vivo : Application Route: Oral
Dose: 500 - 2000 mg/kg
Method: OECD Test Guideline 474
Result: negative

3-aminopropyldimethylamine:

Genotoxicity in vivo : Application Route: Intraperitoneal injection
Dose: 0 - 100 mg/kg
Method: OECD Test Guideline 474

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

Result: negative

Triethylenediamine:
Genotoxicity in vivo: Application Route: Oral
Dose: 0 - 900 mg/kg
Result: negative**Components:**3-aminopropyldimethylamine:
Germ cell mutagenicity-
Assessment: Tests on bacterial or mammalian cell cultures did not show
mutagenic effects.Germ cell mutagenicity-
Assessment

: No data available

Carcinogenicity**Components:**3-aminopropyldimethylamine:
Species: Rat, male and female
Application Route: Oral
Exposure time: 54 weeks
Dose: 20, 100 and 350 mg/kg
Frequency of Treatment: 1x/2wk
NOAEL: 159 mg/kg bw/daySpecies: Mouse, male
Application Route: Dermal
Exposure time: Complete life span
Dose: 25µl of 1% aqueous solution
Frequency of Treatment: 3x/wk
NOAEL: 8 mg/kg bw/day**Components:**3-aminopropyldimethylamine:
Carcinogenicity -
Assessment

: Not classifiable as a human carcinogen.

IARCNo component of this product present at levels greater than or
equal to 0.1% is identified as probable, possible or confirmed
human carcinogen by IARC.**ACGIH**No component of this product present at levels greater than or
equal to 0.1% is identified as a carcinogen or potential
carcinogen by ACGIH.**OSHA**No component of this product present at levels greater than or
equal to 0.1% is on OSHA's list of regulated carcinogens.**NTP**No component of this product present at levels greater than or
equal to 0.1% is identified as a known or anticipated carcinogen
by NTP.

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

Reproductive toxicity**Components:**

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 422
Result: negative

3-aminopropyldimethylamine:

Test Type: Reproduction / Developmental Toxicity Screening Test
Species: Rat, male and female
Application Route: Oral
Dose: 0, 10, 50, 200 milligram per kilogram
General Toxicity - Parent: No observed adverse effect level: 200 mg/kg body weight
General Toxicity F1: No observed adverse effect level: 200 mg/kg body weight
Method: OECD Test Guideline 421

Triethylenediamine:

Species: Rat, male and female
Application Route: Oral
Dose: 100 milligram per kilogram
Frequency of Treatment: 7 days/week
Method: OECD Test Guideline 422
Result: negative

Components:

3-aminopropyldimethylamine:

Effects on foetal development : Species: Rat, male and female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level: 200 mg/kg body weight
Method: OECD Test Guideline 421
Result: No effects on fertility and early embryonic development were detected.

Triethylenediamine:

Species: Rat, female
Application Route: Oral
Result: No teratogenic effects

Species: Rat, male and female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level: 300 mg/kg body weight
Method: OECD Test Guideline 422
Result: No teratogenic effects

Components:

3-aminopropyldimethylamine:

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

Reproductive toxicity - : No toxicity to reproduction
Assessment Did not show teratogenic effects in animal experiments.

STOT - single exposure**Components:**

3-aminopropyldimethylamine:

Target Organs: Lungs

Assessment: May cause respiratory irritation.

STOT - repeated exposure**Components:**

3-aminopropyldimethylamine:

Exposure routes: Ingestion, Skin contact, inhalation (vapour)

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity**Components:**

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Species: Rat, male and female

NOAEL: > 500 mg/kg/d

Application Route: Ingestion

Number of exposures: 7 d

Method: Subacute toxicity

3-aminopropyldimethylamine:

Species: Rat, male and female

NOAEL: 50 mg/kg

LOAEL: 250 mg/kg

Application Route: Ingestion

Exposure time: 28 d

Number of exposures: 7 d/w

Dose: 0, 10, 50 and 250mg/kg

Method: OECD Test Guideline 407

Species: Rat, male and female

NOAEL: 22 mg/kg

LOAEL: 114 mg/kg

Application Route: Ingestion

Exposure time: 3 Months

Number of exposures: 7 d/w

Dose: 50, 260 and 1040mg/kg

Method: OECD Test Guideline 408

Species: Rat, male and female

LOAEL: 100 mg/kg

Application Route: Ingestion

Exposure time: 90 d

Number of exposures: 5 d/w

Dose: 100, 200, 400, 600, 800 mg/kg

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

Method: Subchronic toxicity

Species: Rat, male and female

NOAEL: 9 mg/kg

LOAEL: 45 mg/kg

Application Route: Ingestion

Exposure time: 2 yr

Number of exposures: 1 d/2w

Dose: 20, 100 and 350 mg/kg

Species: Rat, male and female

NOAEL: 144 mg/m³

NOAEL: 48 mg/kg

LOAEL: 107 mg/kg

Application Route: inhalation (vapour)

Exposure time: 42 d

Number of exposures: 7 h/d, 5 d/w

Method: Subacute toxicity

Target Organs: Respiratory system, Lungs, digestive system, Liver, Kidney

Triethylenediamine:

Species: Rat, male and female

LOEC: 60 mg/m³

Application Route: Ingestion

Test atmosphere: dust/mist

Exposure time: 696 h

Number of exposures: 7 d

Method: OECD Test Guideline 412

Repeated dose toxicity - : No data available
Assessment

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

Neurological effects

No data available

Further information

Ingestion: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:**

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Triethylenediamine:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l
Exposure time: 96 h
Test substance: Fresh water
Method: OECD Test Guideline 203

Components:

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 115 mg/l
aquatic invertebrates
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

3-aminopropyldimethylamine:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 59.5 mg/l
aquatic invertebrates
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.2.

Triethylenediamine:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Components:

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Toxicity to algae/aquatic : NOEC (Pseudokirchneriella subcapitata (algae)): 25 mg/l
plants
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

Method: OECD Test Guideline 201

3-aminopropylidimethylamine:
Toxicity to algae/aquatic
plants

: ErC50 (Pseudokirchneriella subcapitata (green algae)): 34 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

EC10 (Pseudokirchneriella subcapitata (green algae)): 26 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (algae)): 19.53 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Triethylenediamine:
Toxicity to algae/aquatic
plants

: ErC50 (Selenastrum capricornutum (green algae)): 180 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

M-Factor (Acute aquatic
toxicity)

: No data available

Toxicity to fish (Chronic
toxicity)

: No data available

Components:

Triethylenediamine:
Toxicity to daphnia and other
aquatic invertebrates
(Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 92 mg/l
Exposure time: 48 hrs
Test Type: static test
Method: OECD Test Guideline 202

M-Factor (Chronic aquatic
toxicity)

: No data available

Components:

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 209

Toxicity to soil dwelling

: No data available

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

organisms

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment
Acute aquatic toxicity : No data available**Components:**

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Persistence and degradability**Components:**

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Biodegradability : Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 17 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.C.

3-aminopropyldimethylamine:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 65 %
Exposure time: 20 d
Method: OECD Test Guideline 301D

Triethylenediamine:

Biodegradability : Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 7 %
Exposure time: 28 d
Method: OECD Test Guideline 301BInoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: ca. 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

Biochemical Oxygen Demand (BOD) : No data available

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Components:

3-aminopropyl dimethylamine:
Photodegradation : Test Type: Air
Degradation (direct photolysis): 50 %
Method: Calculation method

Triethylenediamine:
Photodegradation : Rate constant: < .00001

Impact on Sewage Treatment : No data available

Bioaccumulative potential**Components:**

3-aminopropyl dimethylamine:
Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 3.16

Triethylenediamine:
Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): < 13
Exposure time: 42 d
Test substance: Fresh water
Remarks: Bioaccumulation is unlikely.

Bioconcentration factor (BCF): 3.16

Components:

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:
Partition coefficient: n-octanol/water : log Pow: 1.24 (70 °F / 21 °C)
pH: 11.5
Method: Partition coefficient

3-aminopropyl dimethylamine:
Partition coefficient: n-octanol/water : log Pow: -0.352 (77 °F / 25 °C)

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

Triethylenediamine:
Partition coefficient: n-
octanol/water : log Pow: -0.49

Mobility in soil

Mobility : No data available

Components:

1,1'-[[3-(dimethylamino)propyl]imino]bispropan-2-ol:

Distribution among
environmental compartments : Koc: 347

3-aminopropyldimethylamine:

Distribution among
environmental compartments : Koc: 29, log Koc: 1.46
Method: estimated

Koc: 4.409, log Koc: 0.644

Stability in soil : No data available

Other adverse effects

Environmental fate and
pathways : No data available

Results of PBT and vPvB
assessment : No data available

Endocrine disrupting
potential : No data available

Adsorbed organic bound
halogens (AOX) : No data available

Hazardous to the ozone layer

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I
Substances
Remarks: This product neither contains, nor was
manufactured with a Class I or Class II ODS as defined by the
U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +
B).

Additional ecological
information - Product : An environmental hazard cannot be excluded in the event of
unprofessional handling or disposal.
Harmful to aquatic life.

Global warming potential
(GWP) : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of contents/ container to an approved waste disposal plant.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA**

UN/ID No.	: UN 2735
Proper shipping name	: Amines, liquid, corrosive, n.o.s. (3-AMINOPROPYL DIMETHYLAMINE, 1,1'-[[3-(DIMETHYLAMINO)PROPYL]IMINO]BISPROPAN-2-OL)
Class	: 8
Packing group	: II
Labels	: Class 8 - Corrosive substances
Packing instruction (cargo aircraft)	: 855
Packing instruction (passenger aircraft)	: 851

IMDG

UN number	: UN 2735
Proper shipping name	: AMINES, LIQUID, CORROSIVE, N.O.S. (3-AMINOPROPYL DIMETHYLAMINE, 1,1'-[[3-(DIMETHYLAMINO)PROPYL]IMINO]BISPROPAN-2-OL)
Class	: 8
Packing group	: II
Labels	: 8
EmS Code	: F-A, S-B
Marine pollutant	: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**DOT Classification**

UN/ID/NA number	: UN 2735
Proper shipping name	: AMINES, LIQUID, CORROSIVE, N.O.S.

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	06/14/2019	400001004904	08/01/2016
			Date of first issue: 08/01/2016

Print Date 09/30/2020

(3-AMINOPROPYL DIMETHYLAMINE, 1,1'-[[3-(DIMETHYLAMINO)PROPYL]IMINO]BISPROPAN-2-OL)

Class	: 8
Packing group	: II
Labels	: Class 8 - Corrosive substances
ERG Code	: 153
Marine pollutant	: no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 311/312 Hazards	: Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitisation Specific target organ toxicity (single or repeated exposure)
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SARA 313	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
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This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

CH INV	: The formulation contains substances listed on the Swiss Inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
ENCS	: Notified. Allowed to be imported / manufactured only by the notifiers. Please contact your Huntsman sales representative for more information.
KECI	: On the inventory, or in compliance with the inventory

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

Inventories

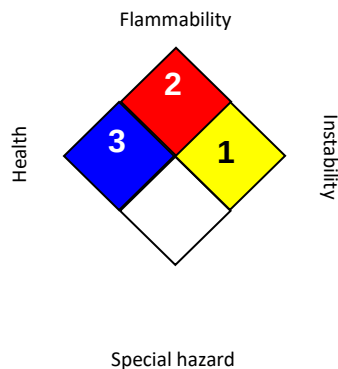
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Further information****NFPA 704:****HMIS® IV:**

HEALTH	*	3
FLAMMABILITY		2
PHYSICAL HAZARD		1

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

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The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

XC-0246

Version	Revision Date:	SDS Number:	Date of last issue: 08/01/2016
1.1	06/14/2019	400001004904	Date of first issue: 08/01/2016

Print Date 09/30/2020

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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