

Safety Data Sheet**D.E.H.™ 505 Epoxy Curing Agent**

Version 1.2

Revision Date: 12/14/2020

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**Product name** : D.E.H.™ 505 Epoxy Curing Agent**Recommended use of the chemical and restrictions on use**

Recommended use : Hardener

Supplier or Repackaging Details**Company** : Univar Solutions México, S. de R.L. de C.V.
Address : Av. Xola, número 535, piso 2, Col. Del Valle Norte
Deleg. Benito Juárez CP 03103
Ciudad de México
Mexico**Manufactured By** : Blue Cube Operations LLC**Emergency telephone number:**

Transport North America: CHEMTREC (1-800-424-9300)

CHEMTREC INTERNATIONAL Tel # 703-527-3887

SETIQ 800 00 214 00 / 55 55 59 15 88

Additional Information: : Responsible Party: Product Compliance Department
E-Mail: SDSLA@univarsolutions.com
SDS Requests: 55 1107 0170
Website: www.univarsolutions.com**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 4

Skin corrosion : Sub-category 1B

Serious eye damage : Category 1

Skin sensitisation : Sub-category 1B

Reproductive toxicity : Category 1B

Effects on or via lactation :

Specific target organ toxicity : Category 3 (Respiratory system)
- single exposureSpecific target organ toxicity : Category 1
- repeated exposure (Inhalation)Short-term (acute) aquatic : Category 1
hazardLong-term (chronic) aquatic : Category 1
hazard**GHS label elements**

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Hazard pictograms



Signal word

: Danger

Hazard statements

: H302 + H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H360 May damage fertility or the unborn child.
H362 May cause harm to breast-fed children.
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P263 Avoid contact during pregnancy and while nursing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should 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 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
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.
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
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 or doctor/ physician.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
Storage:
P403 + P233 Store in a well-ventilated place. Keep container

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tightly closed.
P405 Store locked up.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

This SDS was prepared according to NOM-018-STPS-2015.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical name	Weight percent
140-31-8	Aminoethylpiperazine	30 - 50
80-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	20 - 30
84852-15-3	Para-Nonylphenol	20 - 30
100-51-6	Benzenemethanol	5 - 10
111-41-1	2-(2-Aminoethylamino)ethanol	0.1 - 1
111-40-0	Diethylenetriamine	0.1 - 1

Any concentration shown as a range is due to batch variation.

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.
Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Take victim immediately to hospital.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash clothing before reuse.
If skin irritation persists, call a physician.
Take victim immediately to hospital.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In case of contact, immediately flush eyes with plenty of water for at least 30 minutes.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.

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If swallowed	Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. Take victim immediately to hospital.
	: Keep respiratory tract clear. Do not induce vomiting without medical advice. Give small amounts of water to drink. 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.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Dry chemical Carbon dioxide (CO2) Alcohol-resistant foam Foam regular foam (such as AFFF)
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire-fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon oxides
Specific extinguishing methods	: 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.
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.
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	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

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- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- 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, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.
- Recommended storage temperature : 0 - 30 °C
- Storage period : 24 Months

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
111-40-0	Diethylenetriamine	LMPE-PPT	1 ppm 4.2 mg/m3	MX OEL
R7		TWA	1 ppm	ACGIH

Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
- Filter type : Combined particulates, ammonia/amines and organic vapour type
- 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

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Skin and body protection : Wear face-shield and protective suit for abnormal processing problems.
: Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: yellow
Odour	: amine-like
Odour Threshold	: No data available
pH	: No data available
Freezing point	: No data available
Boiling point (Boiling point/boiling range)	: 199 °C (390 °F)
Flash point	: 110 °C (230 °F) Method: closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: < 1 mmHg @ 20 °C (68 °F)
Relative vapour density	: No data available
Relative density	: 1.08Reference substance: (water = 1)
Density	: No data available
Solubility(ies)	
Water solubility	: slightly soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 3,200 - 4,000 mPa.s @ 25 °C (77 °F) Method: ASTM D 445

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	: No hazards to be specially mentioned. Product will not undergo hazardous polymerization.

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Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources. elevated temperatures Possible emission of gaseous decomposition products may lead to a dangerous pressure build-up.
Incompatible materials	: Acids acrylates Alcohols Aldehydes Bases brass Copper Copper alloys halogenated hydrocarbons hydrogen bromide Iron Ketones magnesium nitrites Oxidizing agents Zinc Aluminium bronze organic absorbents such as sawdust, peat moss, ground corn cobs, etc.
Hazardous decomposition products	: Ammonia ethylenediamine phenol volatile amines Other hazardous decomposition products may be formed.

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 1,312 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : Acute toxicity estimate: 1,734 mg/kg

Components:**140-31-8:**Acute oral toxicity : LD50 (Rat): 1,000 mg/kg
Assessment: The component/mixture is moderately toxic after single ingestion.

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Acute inhalation toxicity	: Remarks: No data available
Acute dermal toxicity	: LD50 (Rabbit): 866.8 mg/kg Assessment: The component/mixture is toxic after single contact with skin.
84852-15-3: Acute oral toxicity	: LD50 (Rat): 1,246 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.
100-51-6: Acute oral toxicity	: LD50 (Rat, male): 1,620 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	: Assessment: The component/mixture is moderately toxic after short term inhalation.
111-40-0: Acute oral toxicity	: LD50 (Rat): 1,080 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	: LC50 (Rat): 0.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is highly toxic after short term inhalation.
Acute dermal toxicity	: LD50 (Rabbit): 1,090 mg/kg Assessment: The component/mixture is moderately toxic after single contact with skin.

Skin corrosion/irritation**Components:****140-31-8:**

Species: Rabbit

Result: Causes burns.

84852-15-3:

Species: Rabbit

Result: Causes burns.

111-41-1:

Species: Rabbit

Result: Causes burns.

111-40-0:

Species: Rabbit

Result: Causes burns.

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Serious eye damage/eye irritation

Components:

140-31-8:

Species: Rabbit

Result: Risk of serious damage to eyes.

80-05-7:

Species: Rabbit

Result: Risk of serious damage to eyes.

84852-15-3:

Species: Rabbit

Result: Risk of serious damage to eyes.

100-51-6:

Species: Rabbit

Result: Irritating to eyes.

111-40-0:

Result: Risk of serious damage to eyes.

Remarks: No data available

Respiratory or skin sensitisation

Product:

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

Components:

140-31-8:

Test Type: Maximization test

Species: Guinea pig

Result: May cause sensitisation by skin contact.

80-05-7:

Test Type: lymph node assay

Species: Mouse

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

111-41-1:

Test Type: lymph node assay

Species: Mouse

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

111-40-0:

Test Type: Maximization test

Species: Guinea pig

Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Components:

140-31-8:

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Genotoxicity in vitro	: Test Type: Ames test Species: Salmonella typhimurium Result: negative
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse Result: negative
Germ cell mutagenicity - Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
80-05-7: Genotoxicity in vitro	: Test Type: Mammalian cell gene mutation assay Species: mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative
	: Test Type: Sister chromatid exchange assay in mammalian cells Species: Chinese hamster ovary (CHO) Metabolic activation: with and without metabolic activation Result: negative
Germ cell mutagenicity - Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
111-41-1: Germ cell mutagenicity - Assessment	: Did not show mutagenic effects in animal experiments.
111-40-0: Genotoxicity in vitro	: Test Type: Ames test Species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse Cell type: Peripheral blood erythrocytes Application Route: Oral Result: negative
Germ cell mutagenicity - Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Components:

140-31-8:
Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

80-05-7:
Species: Rat, (male and female)
Application Route: Oral
Exposure time: 103 wk

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Dose: 1000, 2000 ppm

LOAEL: 1,000 ppm

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

111-41-1:

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

111-40-0:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Studies indicating a hazard to babies during the lactation period

Components:

140-31-8:

Effects on fertility : Species: Rat
Symptoms: Effect on reproduction capacity

Teratogenicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

80-05-7:

Effects on foetal development : Species: Mouse
Dose: .018, 0.18, 1.8, 30, 300, 3500 parts per million
General Toxicity Maternal: NOAEL: 300 ppm
Developmental Toxicity: NOAEL: 300 ppm
Result: Developmental toxicity occurred at maternal toxicity dose levels

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

111-41-1:

Effects on fertility : Test Type: Screening test
Species: Rat, male and female
Application Route: oral
Dose: 0, 50, 250 and 1000 mg/kg bw/
General Toxicity - Parent: NOAEL: 250 mg/kg bw
General Toxicity F1: LOAEL: 50 mg/kg bw
Symptoms: Reduced fertility
Result: Embryotoxic effects and adverse effects on the offspring were detected.

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.

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Teratogenicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.

111-40-0:

Effects on fertility

: Test Type: One generation study
Species: Rat
Application Route: Oral
Duration of Single Treatment: 54 d
General Toxicity - Parent: NOAEL: 30 mg/kg body weight

Teratogenicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Components:

80-05-7:

Target Organs: Respiratory Tract

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

111-41-1:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

111-40-0:

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation., May cause respiratory irritation.

STOT - repeated exposure

Product:

Exposure routes: Inhalation

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Further information

Product:

Remarks: No data available

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

140-31-8:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 32 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 495 mg/l
Exposure time: 72 h

Chronic aquatic toxicity- Assessment : Harmful to aquatic life with long lasting effects.

80-05-7:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.6 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10.2 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 2.73 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test

Chronic aquatic toxicity- Assessment : Toxic to aquatic life with long lasting effects.

84852-15-3:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.209 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0844 mg/l
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 10

111-41-1:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 22 mg/l
Exposure time: 48 h
Test Type: static test

Acute aquatic toxicity- Assessment : Harmful to aquatic life.

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

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111-40-0:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 1,014 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 16 mg/l
Exposure time: 48 h
Test Type: Immobilization

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 187 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: Growth inhibition

Acute aquatic toxicity- Assessment : Harmful to aquatic life.

Chronic aquatic toxicity- Assessment : Harmful to aquatic life with long lasting effects.

Persistence and degradability

Components:

140-31-8:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d

80-05-7:

Biodegradability : aerobic
Inoculum: Activated sludge, domestic, non-adapted
Result: Readily biodegradable.
Biodegradation: 89 %
Exposure time: 28 d

100-51-6:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 92 %
Exposure time: 14 d

111-41-1:

Biodegradability : aerobic
Inoculum: Activated sludge, domestic, adaption not specified
Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d

111-40-0:

Biodegradability : aerobic
Inoculum: activated sludge
Result: Readily biodegradable.

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Biodegradation: 70 %

Exposure time: 28 d

Bioaccumulative potential**Components:****100-51-6:**

Bioaccumulation : Bioconcentration factor (BCF): 1.37

111-41-1:

Bioaccumulation : Bioconcentration factor (BCF): 2.1 - 3.7

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-909-4897

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION**DOT (Department of Transportation):**

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (1-PIPERAZINEETHANAMINE, PARANONYLPHENOL), 8, II

MX-DG (Mexico Road Transportation):

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (1-PIPERAZINEETHANAMINE, PARANONYLPHENOL), 8, II

IATA (International Air Transport Association):

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (1-PIPERAZINEETHANAMINE, PARANONYLPHENOL), 8, II, Flash Point: 110 °C (230 °F)

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IMDG (International Maritime Dangerous Goods):

UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (1-PIPERAZINEETHANAMINE, PARA-NONYLPHENOL), 8, II, Marine Pollutant (PARA-NONYLPHENOL)

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

DSL	: not determined
AICS	: not determined
NZIoC	: not determined
ENCS	: not determined
KECI	: not determined
PICCS	: not determined
IECSC	: not determined

SECTION 16. OTHER INFORMATION

Further information

Other information : The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions Product Compliance Department (55 1107 0170)
SDSLA@univarsolutions.com.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average

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ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50		Lethal Concentration	50%