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 Revision Date: 02/11/2019

 Version: 2 - 2 / USA
 Date of printing: 03/11/2020

#### **SECTION 1. IDENTIFICATION**

Identification of the

company:

Clariant Plastics & Coatings

(Deutschland) GmbH Frankfurt am Main, 65926

Telephone No.: +49 69 305 18000

Information of the substance/preparation:

Product Stewardship, +1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: EXOLIT AP 740 S

Material number: 245121

**Primary product use:** Flame retardants

Chemical family: mixture of flame retardants

### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS classification in accordance with 29 CFR 1910.1200

Combustible dust

**GHS** label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking.

P243 Take precautionary measures against static discharge.

P233 Keep container tightly closed.

#### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Substance name : mixture of flame retardants

### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Melamine	108-78-1	20 - 30
Pentaerythritol	115-77-5	20 - 30



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

#### **SECTION 4. FIRST AID MEASURES**

If inhaled Move the victim to fresh air.

> Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention.

Never give anything by mouth to an unconscious person.

Wash thoroughly with soap and water for 15 minutes. If skin In case of skin contact

irritation occurs, seek medical attention.

In case of eye contact Flush eyes with water at least 15 minutes. Get medical

attention if eye irritation develops or persists.

If swallowed If swallowed, DO NOT induce vomiting.

> Do not give anything to drink. Call a physician immediately.

Most important symptoms and effects, both acute and

delayed

The possible symptoms known are those derived from the

labelling (see section 2).

The possible risks known are those derived from the labelling

(see section 2).

Notes to physician Treat symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media water

Specific hazards during

firefighting

In case of fires, hazardous combustion gases are formed:

Carbon monoxide (CO) Carbon dioxide (CO2)

Ammonia

Further information Exercise caution when fighting any chemical fire. Use NIOSH

approved self-contained breathing apparatus and full

protective clothing.

for firefighters

Special protective equipment : Self-contained breathing apparatus

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment.

Do not breathe dust.

Small spills may be flushed to the sewer or swept up. Larger spills should be collected by shovelling into appropriate waste collection containers. Clean-up by flushing with water if



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desired or removal of contaminated soil. Utilize recommended

clothing and equipment.

Environmental precautions The product should not be allowed to enter drains, water

courses or the soil.

Methods and materials for

containment and cleaning up

Pick up mechanically. Rinse away rest with water.

Dispose of contaminated material as prescribed

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against :

fire and explosion

No special measures necessary.

Advice on safe handling Avoid dust formation. Keep away from sources of ignition.

Lead off electrostatic charges.

Avoid inhalation, ingestion and contact with skin and eyes.

Wash thoroughly after handling.

Store in a cool, dry, well-ventilated area.

**Technical** Store in original container. Keep container tightly closed. measures/Precautions

Materials to avoid Do not store with alkalies

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Melamine	108-78-1	TWA	3 mg/m3	US WEEL
Pentaerythritol	115-77-5	TWA	10 mg/m3	ACGIH
		TWA	5 mg/m3	NIOSH REL
		(Respirable)		
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total	15 mg/m3	OSHA Z-1
		dust)		
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0



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**Engineering measures** : Local ventilation recommended - mechanical ventilation may

be used.

Personal protective equipment

Respiratory protection : Use NIOSH/MSHA approved respirators following

manufacturer's recommendations where dust or fume may be

generated.

Hand protection

Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses or chemical splash goggles.

Skin and body protection : Wear suitable protective equipment.

Protective measures : Wear suitable protective equipment.

Hygiene measures : Clean skin thoroughly after work; apply skin cream.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : solid

Colour : white

Odour : odourless

Odour Threshold : Not tested

pH : approx. 9.2 (25 °C)

Concentration: 10 g/l

Flash point : Not applicable

Flammability (solid, gas) : not determined

Self-ignition : Method: Expert judgement

The substance or mixture is not classified as pyrophoric.

Burning number : 1

Does not catch fire

Upper explosion limit / upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability limit

Not applicable

Vapour pressure : not tested.



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Not applicable

Density : 1.8 g/cm3 (25 °C)

Bulk density : 610 kg/m3 (20 °C)

Solubility(ies)

Water solubility :  $< 30 \text{ g/l} (25 ^{\circ}\text{C})$ 

Partition coefficient: n-

octanol/water

: not determined

Auto-ignition temperature : Not applicable

Decomposition temperature : > 200 °C

Heating rate: 5 K/min

Method: DTA

start of decomposition

The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : no data available

Explosive properties : There are no chemical groups associated with explosive

properties present in the molecule.

Method: Expert judgement

Oxidizing properties : Method: Expert judgement

not oxidizing The product does not contain organic peroxidegroups which result from either the manufacturing process or

from added ingredients.

Particle size : not available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if used as directed.

Chemical stability : Stable

Conditions to avoid : Protect from heat/overheating.

Keep away from strong bases.

Incompatible materials : See under section "Conditions to avoid"

Hazardous decomposition

products

This product may release the following:

Possibility of generation of small quantities of formaldehyde.

Ammonia



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### **SECTION 11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

**Product:** 

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Remarks: The product has not been tested. The information is derived from the properties of the individual components.

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Remarks: not tested.

**Components:** 

Melamine:

Acute oral toxicity : LD50 (Rat, male and female): 3,161 - 3,828 mg/kg

Method: Other

GLP: No information available.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.19 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Acute dermal toxicity : Remarks: no data available

Pentaerythritol:

Acute oral toxicity : LD50 (Rat, male and female): > 5,110 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat, male): > 0.85 mg/l

Exposure time: 4 h Method: Other

GLP: no

Remarks: By analogy with a product of similar composition

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

Method: OECD Test Guideline 402

GLP: no

#### Skin corrosion/irritation

## **Product:**

Species: Rabbit

Result: slight irritant effect - does not require labelling

Remarks: The product has not been tested. The information is derived from the properties of the

individual components.



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#### **Components:**

#### Melamine:

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

#### Pentaerythritol:

Species: Rabbit Exposure time: 4 h Method: Draize Test Result: No skin irritation

GLP: no

### Serious eye damage/eye irritation

#### **Product:**

Species: rabbit eye

Result: slight irritant effect - does not require labelling

Remarks: The product has not been tested. The information is derived from the properties of the

individual components.

### Components:

### Melamine:

Species: Rabbit Result: No eye irritation

Method: Other GLP: no

### Pentaerythritol:

Species: rabbit eye Result: non-irritant

Method: OECD Test Guideline 405

GLP: yes

Remarks: By analogy with a product of similar composition

### Respiratory or skin sensitisation

#### Product:

Remarks: not tested.

### **Components:**

### Melamine:

Test Type: Maximisation Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406



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Result: Not a skin sensitizer.

GLP: yes

#### Pentaerythritol:

Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429 Result: Not a skin sensitizer.

GLP: ves

# Germ cell mutagenicity

#### Components:

#### Melamine:

Genotoxicity in vitro Test Type: Ames test

> Test system: Salmonella typhimurium Concentration: 50 - 5000 µg/plate

Metabolic activation: with and without metabolic activation

Method: Ames test Result: negative

GLP: yes

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Concentration: 240 - 300 µg/ml

Metabolic activation: with and without metabolic activation

Method: Other Result: negative

GLP: No information available.

Test Type: In vitro gene mutation study in mammalian cells

Test system: Chinese hamster ovary cells

Concentration: 600 - 1000 µg/ml

Metabolic activation: with and without metabolic activation

Method: Other Result: negative GLP: yes

Genotoxicity in vivo Test Type: Chromosome Aberration Test

Species: Mouse (male and female)

Strain: CD1

Cell type: Bone marrow

Application Route: oral (gavage) Exposure time: 1 - 2 treatments, 24 h Dose: 1000 - 10000 - 20000 mg/kg

Method: Other Result: negative GLP: yes

Germ cell mutagenicity -

Assessment

In vitro tests did not show mutagenic effects, In vivo tests did

not show mutagenic effects



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Pentaerythritol:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium Concentration: 312,5 - 5000 µg/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Test Type: Ames test

Test system: Escherichia coli

Concentration: 312,5 - 5000  $\mu g/plate$ 

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative GLP: yes

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells

Concentration: 0,4 - 1,4 mg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Test Type: Mouse lymphoma assay Test system: mouse lymphoma cells Concentration: 100 - 1361 µg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Germ cell mutagenicity -

Assessment

It is concluded that the product is not mutagenic based on

evaluation of several mutagenicity tests.

Carcinogenicity

**Components:** 

Melamine:

Carcinogenicity - Assessment

Weight of evidence does not support classification as a

carcinogen

Pentaerythritol:

Carcinogenicity - Assessment

Carcinogenicity classification not possible from current data.

IARC Group 2B: Possibly carcinogenic to humans

Melamine 108-78-1



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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.

Reproductive toxicity

**Product:** 

Effects on fertility : Remarks: not available

Components:

Melamine:

Effects on fertility : Test Type: Fertility/early embryonic development

Species: Other Method: Other

Remarks: Fertility and developmental toxicity tests did not

reveal any effect on reproduction.

Effects on foetal development

Test Type: Pre-natal Species: Rat, female

Strain: wistar

Application Route: oral (feed)
Dose: 136, 400, 1060 mg/kg bw/day

General Toxicity Maternal: NOAEL: 400 mg/kg body weight

Teratogenicity: NOAEL: 1,060 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

Reproductive toxicity -

Assessment

Weight of evidence does not support classification for

reproductive toxicity

Embryotoxicity classification not possible from current data.

Pentaerythritol:

Effects on fertility : Test Type: One generation study

Species: Rat, male and female Application Route: oral (gavage) Dose: 100 - 300 - 1000 mg/kg

General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight General Toxicity F1: NOAEL: 1,000 mg/kg body weight

Method: OECD Test Guideline 422

GLP: yes

Effects on foetal development

Species: Rat, female

Strain: wistar

Application Route: oral (gavage) Dose: 100 - 300 - 1000 mg/kg

General Toxicity Maternal: NOAEL: 100 mg/kg body weight

Teratogenicity: NOAEL: 100 mg/kg body weight



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Method: OECD Test Guideline 414

GLP: yes

Reproductive toxicity - : Classification as "toxic for reproduction" is not justifiable.

Assessment Classification as "teratogenic" is not justifiable.

### STOT - single exposure

**Product:** 

Remarks: not available

#### Components:

#### Melamine:

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

### Pentaerythritol:

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

### STOT - repeated exposure

#### **Product:**

Remarks: not available

# **Components:**

#### Melamine:

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

### Pentaerythritol:

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

#### Repeated dose toxicity

### Components:

#### Melamine:

Species: Rat, male and female NOAEL: 72 mg/kg bw/day Application Route: oral (feed)

Exposure time: 13 w Number of exposures: daily

Dose: 750 - 18000 ppm nominal in die

Group: yes

Method: Repeated Dose Toxicity (subchronic study)

GLP: No information available.

Target Organs: Urinary system, Bladder



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Application Route: Inhalation

Remarks: This information is not available.

Application Route: Skin contact

Remarks: This information is not available.

# Pentaerythritol:

Species: Rat, male and female

NOAEL: 100 mg/kg

Application Route: oral (gavage) Exposure time: 39 d (f), 46 d (m) Number of exposures: daily Dose: 100 - 300 - 1000 mg/kg

Group: yes

Method: OECD Test Guideline 422

GLP: yes

### Aspiration toxicity

### Components:

### Melamine:

No aspiration toxicity classification

# Pentaerythritol:

No aspiration toxicity classification

# Experience with human exposure

# Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

#### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

#### **Product:**

Toxicity to fish

Remarks: no data available

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: not tested.

Toxicity to algae

Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.



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Components:

Melamine:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 3,000 mg/l

End point: mortality Exposure time: 96 h Test Type: semi-static test Analytical monitoring: no

Method: Other GLP: no

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia sp. (water flea)): 200 mg/l End point: Immobilization

Exposure time: 48 h
Test Type: static test
Analytical monitoring: no

Method: Regulation (EC) No. 440/2008, Annex, C.2

GLP: ves

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 325

mg/l

End point: Growth rate Exposure time: 96 h Test Type: static test

Analytical monitoring: no data available

Method: Other GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to fish (Chronic

toxicity)

NOEC (Pimephales promelas (fathead minnow)): >= 5.1 mg/l

End point: length of young fish

Exposure time: 36 d

Test Type: flow-through test Analytical monitoring: yes

Method: OECD Test Guideline 210

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia sp. (water flea)): >= 11 mg/l

End point: Reproduction rate

Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes

Method: OECD Test Guideline 211

GLP: yes

Toxicity to microorganisms : EC0 (Natural microorganism): > 100 mg/l

Exposure time: 2 h
Test Type: static test
Analytical monitoring: yes



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Method: Other GLP: no

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial

organisms

Remarks: Not applicable

Pentaerythritol:

Toxicity to fish : LC50 (Orycias latipes): > 100 mg/l

Exposure time: 96 h Test Type: semi-static test

Analytical monitoring: no data available Method: OECD Test Guideline 203

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 24 h

Test Type: static test

Analytical monitoring: no data available Method: OECD Test Guideline 202

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: By analogy with a product of similar composition

The details of the toxic effect relate to the nominal

concentration.

EC50 (Pseudokirchneriella subcapitata (green algae)): >

1,000 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: yes

Remarks: By analogy with a product of similar composition

The details of the toxic effect relate to the nominal

concentration.



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Toxicity to fish (Chronic

toxicity)

Remarks: not required

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 1,000 mg/l

End point: Reproduction rate

Exposure time: 21 d Test Type: semi-static test

Analytical monitoring: no data available Method: OECD Test Guideline 211

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to microorganisms : EC50 (activated sludge of a predominantly domestic sewage):

> 1,000 mg/l

End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

NOEC (activated sludge of a predominantly domestic

sewage): 1,000 mg/l

End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to soil dwelling

organisms

Remarks: The study is not necessary from a scientific

perspective.

Plant toxicity : Remarks: The study is not necessary from a scientific

perspective.

Sediment toxicity : Remarks: The study is not necessary from a scientific

perspective.

Toxicity to terrestrial

organisms

Remarks: The study is not necessary from a scientific

perspective.

### Persistence and degradability

**Product:** 

Biodegradability : Remarks: not available



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**Components:** 

Melamine:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 100 mg DOC/I Dissolved organic carbon (DOC) Result: not rapidly degradable Biodegradation: < 10 %

Exposure time: 28 d

Method: OECD Test Guideline 302B GLP: No information available.

aerobic

Inoculum: activated sludge

Method: Other

GLP: No information available.

Remarks: The product is biodegradable after lengthy

adaptation.

Physico-chemical

removability

Remarks: Not readily eliminated from water.

Pentaerythritol:

Biodegradability : aerobic

Inoculum: activated sludge, domestic

Concentration: 10 mg/l DOC

CO2 formation in % of theoretical value

Result: Readily biodegradable. Biodegradation: 83.7 % Exposure time: 28 d

Method: OECD Test Guideline 310 GLP: No information available.

Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: not available

Components:

Melamine:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 0.38 - 3.8

Exposure time: 42 d Concentration: 0.2 - 2 mg/l

Method: Other

GLP: No information available.

Partition coefficient: n-

octanol/water

log Pow: -1.22 (22 °C)

pH: 8

Method: Regulation (EC) No. 440/2008, Annex, A.8



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GLP: no

Pentaerythritol:

Bioaccumulation : Remarks: Due to the low logPow bioaccumulation is not

expected

Mobility in soil

**Product:** 

Distribution among

environmental compartments

Remarks: not available

**Components:** 

Melamine:

Distribution among environmental compartments

Adsorption/Soil Medium: water - soil log Koc: 1.13 - 1.51

Method: estimated

Pentaerythritol:

Distribution among

environmental compartments

Remarks: Not applicable

Other adverse effects

Product:

Results of PBT and vPvB

assessment

Remarks: no data available

Additional ecological

information

May contribute to eutrophication in static waters, therefore

should not be released into surface waters

The product has not been tested. The information is derived

from the properties of the individual components.

Components:

Melamine:

Environmental fate and

pathways

no data available

Results of PBT and vPvB

assessment

This substance is not considered to be persistent,

bioaccumulating and toxic (PBT).

Pentaerythritol:

Environmental fate and

pathways

not available

Results of PBT and vPvB : This substance is not considered to be persistent,



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bioaccumulating and toxic (PBT). assessment

Additional ecological

information

: Do not allow to enter ground water, waterways or waste water.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

RCRA - Resource

Conservation and Recovery

Authorization Act Waste Code

: NONE

Waste from residues

Small quantities may be treated in aerobic wastewater

treatment systems. Larger quantities may be incinerated or

landfilled after solidification in permitted systems.

Contaminated packaging Uncontaminated packaging may be taken for recycling

No -- Not as sold.

### **SECTION 14. TRANSPORT INFORMATION**

DOT not restricted IATA not restricted **IMDG** not restricted

#### **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 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust

**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.

### Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307



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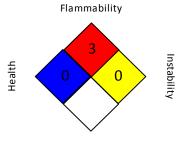
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#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

## NFPA:



Special hazard.

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average

US WEEL / TWA : 8-hr TWA

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw -Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk: IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise



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Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZloC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

None known.

Revision Date : 02/11/2019

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