

#### **EXOLIT AP 740 F**

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

Identification of the company:	Clariant Plastics & Coating USA LLC 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000 Information of the substance/preparation: Product Stewardship, +1-704-331-7710 Emergency tel. number: +1 800-424-9300 CHEMTREC
Trade name:	<b>EXOLIT AP 740 F</b>
Material number:	245122
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	:	<b>Prevention:</b> 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 MEASUR	RES
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.
In case of skin contact	: Wash thoroughly with soap and water for 15 minutes. If skin 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	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Do not give anything to drink.</li> <li>Call a physician immediately.</li> </ul>
Most important symptoms and effects, both acute and delayed	<ul> <li>The possible symptoms known are those derived from the labelling (see section 2).</li> <li>The possible risks known are those derived from the labelling (see section 2).</li> </ul>
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
		Electrical grounding of equipment is required to prevent possible dust explosion. Emits toxic fumes under fire conditions.
Further information	:	Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
Special protective equipment for firefighters	:	Self-contained breathing apparatus

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Wear suitable protective equipment.



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protective equipment and emergency procedures	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 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.
Technical measures/Precautions	:	Store in original container. Keep container tightly closed. Store in a cool, dry, well-ventilated area.
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	5 mg/m3	OSHA Z-1
		(respirable		
		fraction)		
		TWA (Total	10 mg/m3	OSHA P0
		dust)		



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			TWA (respirable dust fraction)	5 mg/m3	OSHA PO
Melamine		108-78-1	TWA	3 mg/m3	US WEEL
Pentaerythritol		115-77-5	TWA	10 mg/m3	ACGIH
1 chiaciytiintoi		110 11 0	TWA	5 mg/m3	NIOSH R
			(Respirable)	0 1119/1110	
			TWA (total)	10 mg/m3	NIOSH R
			TWA (total	15 mg/m3	OSHA Z-1
			dust)	io mg/mo	001// 2
			TWA	5 mg/m3	OSHA Z-
			(respirable	o	
			fraction)		
			TWA (Total	10 mg/m3	OSHA PO
			dust)	, s	
			TWA	5 mg/m3	OSHA PO
			(respirable		
			dust fraction)		
Engineering measures	:	Local ventilat be used.	ion recommende	d - mechanical v	entilation may
Personal protective equip	ment	t			
Respiratory protection	:			respirators followi ons where dust o	
Hand protection Remarks	:	Butyl Rubber	, PVC Or Neopre	ne.	
	:	·	, PVC Or Neopre		
Remarks	::	Safety glass	·	lash goggles.	

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	solid
Colour	:	white
Odour	:	odourless
Odour Threshold	:	Not tested
рН	:	approx. 9.2 (25 °C) Concentration: 10 g/l
Melting point	:	no data available

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Poiling point		no data available	
Boiling point	•		
Flash point	:	Not applicable	
Evaporation rate	:	no data available	
Flammability (solid, gas)	:	not determined	
Self-ignition	:	Not applicable	
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 applicable	
Relative vapour density	:	no data available	
Relative density	:	no data available	
Density	:	1.8 g/cm3 (25 °C)	
Bulk density	:	610 kg/m3 (20 °C)	
Solubility(ies) Water solubility	:	< 30 g/l (25 °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	
Viscosity Viscosity, dynamic	:	Not applicable	
Viscosity, kinematic	:	no data available	
Explosive properties	:	There are no chemical groups as properties present in the molecul Method: Expert judgement	
Oxidizing properties	:	Method: Expert judgement not oxidizing The product does n	ot contain organic peroxide



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	groups which result from either the manufacturing process or from added ingredients.
Surface tension	Based on chemical structure, no surface activity is expected or can be predicted.
Particle size	not available
SECTION 10. STABILITY AND READ	
Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable
Possibility of hazardous : reactions	The substance or mixture does not emit flammable gases in contact with water. Not corrosive to metals Contact with strong bases liberates ammonia. Risk of dust explosion.
Conditions to avoid	Protect from heat/overheating.
	Keep away from strong bases.
Incompatible materials	none
Hazardous decomposition : products	Ammonia, formaldehyde (depending on temperature and type and time of processing.)

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely route	s of	exposure
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.
<u>Components:</u>		
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 Method: OECD Test Guideline 403 GLP: yes
Acute dermal toxicity	:	Remarks: Not applicable



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#### 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.

#### 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.

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#### Components:

#### Melamine:

Species: rabbit eye 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 Result: Does not cause skin sensitisation. GLP: yes

#### Pentaerythritol:

Test Type: Mouse local lymphnode assay Exposure routes: Skin contact Species: Mouse Method: OECD Test Guideline 429 Result: Does not cause skin sensitisation. GLP: yes

#### 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

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ubstance key: 000000459539	Revision Date: 01/29/2018
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	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
	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.
Genotoxicity in vivo	<ul> <li>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</li> </ul>
Germ cell mutagenicity - Assessment	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Pentaerythritol:	
Genotoxicity in vitro	<ul> <li>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</li> </ul>
	Test Type: Ames test Test system: Escherichia coli Concentration: 312,5 - 5000 µg/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

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	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	Not listed
OSHA	Not listed
NTP	Not listed
Reproductive toxicity	
Product:	
Reproductive toxicity - Assessment	: No information available.
<u>Components:</u>	
Melamine:	
Effects on fertility	<ul> <li>Test Type: Fertility/early embryonic development Species: rodent Method: Other GLP: No information available. Remarks: Fertility and developmental toxicity tests did not reveal any effect on reproduction.</li> </ul>
Effects on foetal development	: Species: Rat Strain: wistar



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Version . 2 - 27 USA	Date of printing :04/09/2019 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 Method: OECD Test Guideline 414 GLP: yes
Reproductive toxicity - : Assessment	Classification as "toxic for reproduction" is not justifiable. 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



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#### 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: 750 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.

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



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#### 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 soil dwelling organisms	:	Remarks: not available
Plant toxicity	:	Remarks: not available
Toxicity to terrestrial organisms	:	Remarks: not available
Components:		
Melamine:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 3,000 mg/l 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 Exposure time: 48 h Test Type: static test Analytical monitoring: no Method: US-EPA FIFRA 72-2 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Toxicity to algae	:	EC50 (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



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		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 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 (Nitrobacter sp.): > 100 mg/l End point: Nitrate formation rate Exposure time: 2 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.
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

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5011.2-2700A	
	concentration.
Toxicity to algae	<ul> <li>EC50 (Desmodesmus subspicatus (green algae)): &gt; 100 mg End point: Growth rate</li> <li>Exposure time: 72 h</li> <li>Test Type: static test</li> <li>Analytical monitoring: yes</li> <li>Method: OECD Test Guideline 201</li> <li>GLP: yes</li> <li>Remarks: By analogy with a product of similar composition</li> <li>The details of the toxic effect relate to the nominal</li> </ul>
	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 compositior The details of the toxic effect relate to the nominal concentration.
Toxicity to fish (Chronic toxicity)	: Remarks: not required
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>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.</li> </ul>
Toxicity to microorganisms	<ul> <li>EC50 (activated sludge of a predominantly domestic sewage &gt; 1,000 mg/l</li> <li>End point: Bacteria toxicity (respiration inhibition)</li> <li>Exposure time: 3 h</li> <li>Test Type: aquatic</li> <li>Analytical monitoring: no</li> <li>Method: OECD Test Guideline 209</li> <li>GLP: yes</li> <li>Remarks: The details of the toxic effect relate to the nominal concentration.</li> </ul>
	NOEC (activated sludge of a predominantly domestic sewage): 1,000 mg/l End point: Bacteria toxicity (respiration inhibition)





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		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 degradab	oility	
Product:		
Biodegradability	:	Remarks: Not applicable
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



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51011 . Z - Z / USA		Date of printing :04/09/20
	CO2 formation in % of theor Result: Readily biodegradab Biodegradation: 83.7 % Exposure time: 28 d Method: OECD Test Guideli GLP: No information availab	le. ne 310
Bioaccumulative potential		
Product:		
Bioaccumulation	Remarks: not available	
Components:		
Melamine:		
Bioaccumulation	Species: Cyprinus carpio (C Bioconcentration factor (BCI Exposure time: 42 d Concentration: < 0.2 - 2 mg/ Method: Other GLP: No information availab	F): 0.38 - 3.8 /I
Pentaerythritol:		
Bioaccumulation	Remarks: Due to the low log expected	Pow bioaccumulation is not
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:		
Additional ecological information	should not be released into	ication in static waters, therefore o surface waters ested. The information is derive



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		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:		
•	:	not available
Results of PBT and vPvB assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
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	:	No Not as sold.
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

#### SECTION 14. TRANSPORT INFORMATION

DOT	not restricted
ΙΑΤΑ	not restricted
IMDG	not restricted

#### SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know



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#### **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

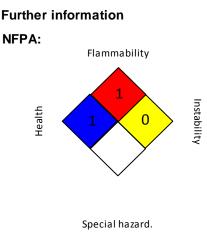
#### The components of this product are reported in the following inventories:

:

TSCA
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All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

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



#### 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)



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ACGIH / TWA		8-hour, time-weighted average	

ACGIH / TWA	: 8-nour, 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 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

Observe national and local legal requirements Avoid contact with skin and eyes. wear proper protective equipment. Wash thoroughly after handling. keep in original containers at temperatures not exceeding 25 C.

Revision Date : 01/29/2018

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