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SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1 Product Identifier		
Product Name:	Thermo Plastic Olefin Series-2	
Other/Generic Names:	TPO, Thermoplastic polyolefin	
Grades:	Not yet defined	
REACH Registration Number:	Not applicable	
EC Number:	Not available	
CAS Number:	Not available	
Molecular formula:	Not available	
Molecular Structure:	Not available	
Molecular weight range:	Not available	
molecular weight range.	Trot available	

1.2 Relevant identified uses of the substance or mixture and uses advised against

IDENTIFIED USES:

Resins

MOST COMMON TECHNICAL FUNCTION OF SUBSTANCE (WHAT IT DOES):

Pharmaceutical ingredient, pharmaceutical intermediate food processing material

USES BY CONSUMERS ADVISED AGAINST

Final product.

1.3 Manufacturer or supplier's details			
Manufacturer	Rabigh Refining and Petrochemical Company		
Address	PLANT PO Box 101, Rabigh 21911, Kingdom of Saudi Arabia Tel: +966 12 425 0390 Free Number: 800 440 9000		
E-mail address of person responsible for this SDS	stephane.dallaire@petrorabigh.	com	
	Asia Pacific (except China):	CareChem 24 +65 3158 1074	English, Cantonese, Indonesian, Japanese, Korean, Malay, Mandarin, Thai, Vietnamese
	China (Off-land):	CareChem 24 +86 512 8090 3042	English, Mandarin
Emergency telephone	US, Canada: Outside above area:	ChemTrec 1-800-424-9300 +703-527-3887	English
numbers (24-hour)	Europe, America, Middle East, Africa (Europe & English Speaking):	CareChem 24 +44 (0) 1235 239 670	English, Albanian, Bulgarian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serb-Croat, Slovak, Spanish, Swedish, Turkish, Ukrainian
	Middle East & Africa (Arabic speaking):	CareChem 24 +44 (0) 1235 239 671	English, Arabic, French

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SECTION 2: Hazards Identification	
2.1 Classification of the substance or mixture	
Product Definition:	TPO Series
Classification according to Directive 67/548/EEC [DSD]:	Not classified. Under normal conditions of use, the material is not expected to create unusual emergency hazards.
2.2 Label elements	
Hazard pictograms (Labelling according Regulation (EC) No 1272/2008):	Not Applicable
Signal word:	Not Applicable
Hazard statements:	Not Applicable
Precautionary statements Prevention:	Not Applicable
Response:	Not Applicable
Storage:	Not Applicable
Disposal:	Not Applicable
Special packaging requirements	
Containers to be fitted with child-resistant fastenings:	Not applicable
Tactile warning of danger:	Not applicable
2.3 Other hazards	
Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII:	Not applicable
Substance meets the criteria for vpvB according to Regulation (EC) No. 1907/2006, Annex XIII:	Not applicable
Other hazards which do not result in classification:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Classification of the substance or mixture

Substance/mixture

			Classification		
Product / Ingredient name	Identifiers	Wt%	Directive 1999/45/EC	Regulation (EC) No. 1272/2008 [CLP/GHS]	Туре
a-Olefin resin	CAS: Mixed	3.0 - 99.0%	This substance is not classified as dangerous	Not a hazardous substance or mixture	[A]
Ethylene propylene rubber	Not available	0 - 90.0%	This substance is not classified as dangerous	Not a hazardous substance or mixture	[A]
Mineral oil	Not available	0 - 45.0%	Classification not possible	H319: Causes serious eye irritation	[B]
Filler	Not available	0 - 40.0%	Classification not possible	Classification not possible	[B]
Additives	Not available	≤ 10.0%	Classification not possible	Classification not possible	[B]
Colored pigment: Carbon black	CAS: 1333-86-4	≤ 5.0%	This substance is not classified as dangerous	Not a hazardous substance	[B]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent; [B] Stabilizing additive; Occupational exposure limits, if available, are listed in Section 8.

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SECTION 4: First aid	a measures
4.1 Description of first a	id measures
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen it breathing is difficult. Apply artificial respiration if victim is not breathing. Rinse nose, mouth and throat with water. Keep victim warm with a blanket etc. Get immediate medical advice/attention. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Skin contact	Remove/take off immediately contaminated clothing and shoes. Gently wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention. Burns (in contact with molten product or heated product): Immediately immerse in large amount of cold water, or flush with large amounts of water the affected area to dissipate heat. While flushing, remove clothes which do not adhere to affected area. Cover with clean cotton sheeting or gauze. Get immediate medical advice/attention.
Eye contact	Do not rub eye. Hold eyelids apart. Begin to rinse with water as soon as possible and rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Burns (in contact with molten product or heated product): Immediately immerse in large amount of cold water, or flush with large amounts of water the affected area to dissipate heat.
Ingestion	Rinse mouth. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Keep victim warm with a blanket etc. Get immediate medical advice/attention. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing.
Protection of first-aiders	Use personal protective equipment as required.
4.2 Most important sym	otoms and effects, both acute and delayed
Potential acute and delayed he	ealth effects
Inhalation	Not a probable route of exposure under normal conditions of use. Elevated processing temperatures may generate fumes and vapors which may cause irritation to the nose and throat.
Skin contact	May cause mechanical irritation if the product comes into contact with the skin. Contact with molten materia may cause thermal burns.
Eye contact	May cause mechanical irritation if product comes into contact with the eyes.
Ingestion	Not a probable route of exposure. No applicable information found.
Over-exposure signs/symptor	<u>ns</u>
Eye contact	No specific data available.
Inhalation	No specific data available.
Skin contact	No specific data available.
Ingestion	No specific data available.
4.3 Indication of any imi	mediate medical attention and special treatment needed
Notes to physician	No specific advice, treat symptomatically.
Specific treatments	No specific information.

No specific information.
ting measures
Small fires: Dry chemical powder, carbon dioxide, water spray, regular foam. Use fire-extinguishing media appropriate for surrounding materials. Large fires: Water spray, fog, regular foam. Use fire-extinguishing media appropriate for surrounding materials.
High pressure water streams.
Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Keep upwind. Keep unauthorized personnel away. If possible, remove containers exposed to heat or cool with water. Let the fire burn itself out with cooling cylinder/vessel by water spray unless leak can be stopped. Do not scatter spilled material with high pressure water streams. Dike fire water for later disposal; do not spread the material. Cool containers with flooding quantities of water until well after fire is out.
ng from the substance of mixture
Contact may cause burns to skin and eyes. Inhalation may cause coughing, difficult breathing and nausea. Effects of contact or inhalation may be delayed.
May decompose upon heat or flame and will produce harmful gases (See section 10: Stability and reactivity") and fumes. Runoff and fire-control water may pollute waters. Risk of fire and explosion on contact with incompatible material(s). For large fires, withdraw from fire area and let fire burn. Inorganic fillers may be contained in smoke and fume by fire.

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Hazardous thermal decomposition products	Fumes produced when heated to decomposition temperatures may contain carbon monoxide, carbon dioxide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons. Combustion products from rubber, like those of other natural/synthetic materials, must be considered toxic.	
5.3 Advice for firefighters	\$	
Special protective actions for fire-fighting	Keep upwind. Keep unauthorized personnel away. If possible, remove containers exposed to heat or cool with water. For large fires, withdraw from fire area and let fire burn. Dike fire water for later disposal; do not spread the material. Cool containers with flooding quantities of water until well after fire is out.	
Specific protective equipment for fire-fighting	Wear regional, national, and local standards approved fire fighting turnout gear and positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection from heat, and may not provide adequate protection from the harmful vapors or liquids.	

SECTION 6: Acciden	tal release measure
6.1 Personal precautions	, protective equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surroundinareas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spille material. Avoid breathing dust/fu me/gas/mist/vapours/spray. Provide adequate ventilation. Wea appropriate respirators when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	Wear appropriate protective equipment. Use personal protection recommended in section 8: Exposur control/personal protection. Fully encapsulating, vapor protective clothing should be worn for spills an leaks with no fire. Isolate spill or leak area for proper distance in all directions. Provide adequate ventilation Keep upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Use only outdoors or in a well-ventilated area. Do not breathe dust/fu me/gas/mist/vapours/spray. Wash face and hands thoroughly after handling.
Prevention of secondary hazards	ELIMINATE all ignition sources such as heat/sparks/open flames/hot surfaces/static discharges. Prever heat and contact with hot surface. Do not put water inside spilled material containers. Prepare appropriate extinguishing agent. (See "5. Fire-fighting measures") For large spill, consider initial downwind evacuation for proper distance. Prevent dust cloud or/and dust accumulation.
6.2 Environmental precau	utions
Prevent entry spilled material environment.	and runoff from spillage control into waterways, sewers, basements or confined areas. Avoid release to the
6.3 Methods and material	Is for containment and cleaning up
Small spill	Eliminate ignition sources. Stop leak if without risk. Move containers from spill area. Mop up and place in a appropriate labeled waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Dike far ahead of liquid spill for later disposal. Use clean non-sparking tools. Collect scattered product int sealable containers. Moist particle solid at first to prevent scattering if appropriate. Collect fine substance by dust explosion-proof cleaner to prevent scatter. Collect remaining dust and transfer from danger area for later disposal. See "13. Disposal considerations".
6.4 Reference to other se	ctions
See Section 1 for emergency See Section 8 for information See Section 13 for additional	on appropriate personal protective equipment.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).			
7.1 Precautions for safe	7.1 Precautions for safe handling		
Protective measures	ELIMINATE all ignition sources. Use only outdoors or in a well-ventilated area. Keep upwind for handling outdoors as much as possible. Keep unauthorized personnel away. Use clean non-sparking tools. Avoid contact with eyes, skin, and clothing. Prevent dust cloud and dust accumulation. Do not breathe powder, dust, shavings, borings, turnings or cuttings. As precautions for electrostatic discharge, inerting closed systems and explosion pressure venting of confined spaces are recommended. In case of open system, prevent from insulator lining or coating of piping, duct, hopper, and apply grounding/ earthing of all conductive process units. Take precautionary measures against static electricity such as grounding and bonding, wearing anti-static footwear and clothing, using grounded conductive floor. Consult an expert about further precautionary measures for dust explosion.		
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.		

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7.2 Conditions for safe	storage, includii	ng any incompatibi	lities		
Technical measures and Conditions	Well ventilate by p sunlight. Store in a See "10. Stability a	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep containers tightly closed. Well ventilate by proper manner according to regional, national and local regulations. Protect against direct sunlight. Store in a dry place. Keep in a fire-proof designed place. Keep away from incompatible materials. See "10. Stability and reactivity". Keep away from food and feedstuffs. Store locked up. Use package or container with anti-static discharge liner. All containers shall be properly labeled.			
7.3 Specific end use(s)				<u> </u>	
Recommendations	Install appropriate protection") Use p Obtain special insunderstood. Wash	equipment and wear appersonal protective equipmetructions before use. Do hands and face thorough	xposure control/personal propriate protective clothin nent as required. To not handle until all safuly after handling. Eating, uld not be allowed out of the second	ng. (See "8. Ex fety precaution drinking and s	s have been read and
Industrial sector specific solutions	tightly closed. We Provision to conta	ell ventilate by proper r in effluent from fire extin ep away from incompatib	/hot surfaces No smol nanner according to reg guishing. Store locked up ble materials. See "10. Sta	ional, national b. Store in a dr	and local regulations. y place. Protect against
SECTION 8: Expos	ure controls/p	ersonal protecti	ion		
The information in this se be consulted for any ava 8.1 Control parameters	ilable use-specific				in Section 1 should
Occupational exposure li					
Substance		Form	TWA	STEL	Reference
Particles (insoluble or poorly s	soluble) not otherwise	Dust	3 mg/m³ (Respirable)	-	ACGIH
specified		Dust	10 mg/m ³ (Inhalable)	-	ACGIH
Carbon bla	ck	Dust	3 mg/m³ (Inhalable)	-	ACGIH
Mineral o	il	Mist	5 mg/m³ (Inhalable)	=	ACGIH
8.2 Exposure controls					
Appropriate engineering controls		If user operations generate dust, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.			
Individual protection measu	ires				
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.				
Eye/face protection:		Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mist, gases or dusts. Recommended: safety glasses with side-shields			
Skin protection					
Hand protection:	when handling che	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this are necessary. For 8-hour full or splash contact with the material, use gloves made of butyl rubber with minimum layer thickness of 0.3 mm.			

splash contact with the material, use gloves made of butyl rubber with minimum layer thickness of 0.3 mm. Personal protective equipment for the body should be selected based on the task being performed and the **Body protection:** risks involved and should be approved by a specialist before handling this product. Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. If used in solution, or mixed with other substances, contact suppliers of approved gloves and skin protection. This is only advisory and must be evaluated on a case-to- case basis by specialists. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk Respiratory protection: assessment indicates this is necessary or as backup to engineering controls. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapor filter (Type A) Emissions from ventilation or work process equipment should be checked to ensure they comply with the **Environmental exposure** requirements of environmental protection legislation. In some cases, scrubbers, filters or engineering controls: modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties **Appearance** Physical state: Solid in pellet form Color: Black or milky white Odor: Slight odor Odor threshold: Not applicable pH: No data available Melting point/freezing point range: 100 - 170 °C **Boiling point:** No data available Flash point: No data available Evaporation rate (Butyl acetate=1.0): No data available Flammability (solid, gas): **Burning time:** No data available **Burning rate:** No data available Upper/lower flammability Lower: No data available or explosive limits: Upper: No data available No data available Vapor Pressure: Vapor Specific Gravity (Air=1): No data available Specific gravity (water =1.0) 0.86 - 1.00Solubility(ies): Insoluble in water. No data available for other than water. Partition coefficient; n-octane/water: No data available Auto-ignition temperature: No data available **Decomposition temperature:** No data available Viscosity: Not applicable

9.2 Other information

Explosive properties:

Oxidizing properties:

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product.

10.2 Chemical stability

Normally stable. Avoid exposure to open flame or temperatures exceeding recommended processing conditions.

Classification not possible

Classification not possible

10.3 Possibility of hazardous reactions

Thermal decomposition products may include carbon monoxide, carbon dioxide, dense smoke, aldehydes, other organic vapors.

10.4 Conditions to avoid

Keep away from ignition sources, heat, sparks, flame, hot surfaces and incompatible materials and avoid accumulation of static electricity.

10.5. Incompatible materials

Strong oxidizing agents, acids, flammable materials.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides, hydrocarbons and soot.

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11.1 Informa	tion on toxicolog	gical effects			
Acute Toxicity:	-	Product/Ingredient name	Result	Species	Dose
Oral		4 Danas and Laurench and a	LDLo	Mouse	>8,000 mg/kg
		1-Propene, homopolymer	LD50	Rat	>8,000 mg/kg
		Ethene, homopolymer	LD50	Rat	>3,000 mg/kg
		Carbon black	LD50	Rat	>8,000 mg/kg
Dermal		No data available	-	-	-
Inhalation		No data available	-	-	-
		Ethene, homopolymer	LC50 (30 min)	Rat	75.5 mg/l (dust/mist
		Mineral oil	Category 4	-	-
Skin	Corrosivity:	No data available		-	
	Irritation:	1-Propene, homopolymer	Human (vo	lunteer test): Not ii	ritating
		Ethene, homopolymer	Humar	n: may cause irritat	ion
		E'lla s	Rabit:	Moderatley irritatin	g
		Filler	ŀ	Human: Iriitating	
Eye	Corrosivity:	No data available		-	
	Irritation:	Ethene, homopolymer	Humar	n: may cause irritat	ion
		E'll	Rabb	it: Severely irritatin	g
		Filler	Hun	nan: Midly irritating	
		Casrbon black	Rabbit: Not irritating		
Sensitization	Respiratory:	No data available	-		
	(Skin):	1-Propene,homopolymer	Human (vol	unteer test): non-se	ensitizer
		A al aliations	Gui	nea Pig: sensitizer	
		Additive	Human (vol	unteer test): non-se	ensitizer
Germ cell mutaç	genicity:	No data available		=	
		Mineral oil		Category 2	
Carcinogenicity	:	1-propene, homopolymer	IARC: 3 (Not classified as carcinogen to humans)		
			Rat carcinogenicity study (Inhalation): carcinogenic (lung)		
		Carbon black	IARC: 2B (possibly carcinogenic to humans)		
			ACGIH: Group A3 (confirmed animal carcinogenic with relevance to humans)		ogenic with unknown
		Ethene, homopolymer	IARC: 3 (Not class	sified as carcinoge	n to humans)
Reproductive to	xicity				
	Teratogenicity:	No data available		-	
	Reproduction:	No data available		-	
Specific target of	organ toxicity STOT	(single exposure):			
		No data available		-	
		Mineral oil	Category 2 (inl	halation): respirato	ry system
Specific target of	organ toxicity STOT	(repeated exposure):			
		No data available		-	
		Carbon black	Human epidemiolog	ical information (in	halation): Lung
		Mineral oil	Category 1: skin (dermal),	Respiratory syster system (oral).	m (inhalation), Lymph
Aspiration Hazards:		No data available		-	
Other Effects:		No data available	-		

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12.1 Toxicity				
Acute Toxicity:	Product/Ingredient name	Result	Dose	Duration
Fish	No data available	-	-	-
	Carbon Black	LC50	>1,000 mg/l	96 hours
Crustacea	No data available	-	-	-
Crustacea (Water Flee)	Carbon black	LC50	>5,600 mg/l	24 hours
Algae	No data available	-	-	-
	Carbon black	ErC50	>10,000 mg/l	72 hours
Others:	No data available	-	-	-
Chronic Toxicity:				
Persistency/Durability:	No data available	-	-	-
Bioaccumulative potential:	No data available	-	-	-
Mobility in soil				
	No data available	<u>-</u>	-	-
12.2 Persistence and degrad	ability			
Conclusion/summary: No	data available			
12.3 Bioaccumulative potent	ial			
Conclusion/summary: No	data available			
12.4 Mobility in soil				
Conclusion/summary: No	data available			
12.5 Results of PBT and vPv	B assessment			
No data available				
12.6 Other adverse effects				
No data available. Neither ethane, ozone layer.	homopolyemr nor carbon black	are not listed in the M	Iontreal Protocol for substanc	es that deplete t

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SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Significant quantities of

waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any

regional local authority requirements.

be consulted for any available use-specific information provided in the Exposure Scenario(s).

Hazardous waste: The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Waste packaging

should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Care should betaken when

handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil,

waterways, drains and sewers.

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SEC	SECTION 14: Transport information				
		ADR/RID	ADN/ADNR	IMDG	IATA
14.1	UN number	None	None	None	None
14.2	UN proper shipping name	None	None	None	None
14.3	Transport hazard class(es)	None	None	None	None
14.4	Packing group	None	None	None	None
14.5	Environmental hazards	None	None	None	None
14.6	Special precautions for user	Not available	Not available	Not available	Not available
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	None	None	None	None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH): Planned to be registered.

Annex XIV - List of substances subject to authorization

Substances of very high concern: No data available

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:

No data available

Other EU regulations

Europe inventory: All components are listed or exempted.

Black List Chemicals:Not listedPriority List Chemicals:No data availableIntegrated pollution prevention and control list (IPPC) - Air:No data availableIntegrated pollution prevention and control list (IPPC) - Water:No data available

International regulations

Chemical Weapons Convention List Schedules I, II and III Chemical: Not listed

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms: None

Revision	1.5
Date of issue/ Date of revision:	08/04/2019
Date of previous issue:	01/08/2019

DISCLAIMER:

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