Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 874 Supergloss 07 4874

Version 7.0	Revision Date 27.02.2023	Print Date 28.02.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	METALSTAR PANTONE 874 Supergloss 07 4874
Material number	:	070352RN0

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company	: ECKART GmbH
	Guentersthal 4
	91235 Hartenstein
Telephone	: +499152770
Telefax	: +499152777008
E-mail address	: msds.eckart@altana.com
Responsible/issuing person	

1.4 Emergency telephone number

NCEC: (contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Acute toxicity, Category 4, Oral, H302 Serious eye damage/eye irritation, Category 2A, H319 Reproductive toxicity, Category 2, H361d

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<text><text><section-header> <text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></section-header></text></text>	Version 7.0		Revision Date 27.02.2023	Print Date 28.02.2023
Symbol(s) : iverage iverage iverage Signal word : Warning Hazard statements : H302: Harmful if swallowed. H319: Causes serious eye irritation. H361d: Suspected of damaging the unborn child. H410: Very toxic to aquatic life with long lasting effects. Precautionary statements : Prevention: P203 Obtain, read and follow all safety instructions before use. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 P280 Wear protection/ face protection/ hearing protection. Response: P301 + P317 + P330 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P318 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P318 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P318 IF exposed or concerned, get medical advice. P337 + P317 If ever irritation persists: Get medical help. P391 Collect spillage. Storage: P405 P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plan.				
Hazard statements : H302: Harmful if swallowed. H319: Causes serious eye irritation. H361d: Suspected of damaging the unborn child. H410: Very toxic to aquatic life with long lasting effects. Precautionary statements : Prevention: P203 Obtain, read and follow all safety instructions before use. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P301 + P317 + P330 IF SWALLOWED: Get medical help. Rinse mouth. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P318 IF exposed or concerned, get medical advice. P337 + P317 If eye irritation persists: Get medical help. P391 Collect spillage. Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.	-	:		
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Page 2 / 22 102000027897 A member of C ALTANA	Precautionary statements	F F F F F F F F F F F F F F F F F F F	P203Obtain, read and follow a use.P264Wash skin thoroughly aftP270Do not eat, drink or smoleP270Do not eat, drink or smoleP270Avoid release to the environmentP273Avoid release to the environmentP280Wear protective gloves/ portection/ face protection/ hearingResponse:P301 + P317 + P330P305 + P351 + P338IF IN EYWater for several minutes. Remoand easy to do. Continue rinsing.P318IF exposed or concernedP337 + P317If eye irritation perP391Collect spillage.Storage:P405Store locked up.Disposal:P501Dispose of contents/ con	ter handling. ke when using this product. ironment. protective clothing/ eye ng protection. LLOWED: Get medical help. YES: Rinse cautiously with ve contact lenses, if present d, get medical advice. ersists: Get medical help.
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Hazardous components which must be listed on the label

:

IdentificationCAS-No.copper7440-50-81-isopropyl-2,2-dimethyltrimethylene6846-50-0diisobutyrate

SECTION 3: Composition/information on ingredients

Substance No.

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
copper	7440-50-8 231-159-6	Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	25 - 50
Distillates (petroleum), hydrotreated middle	64742-46-7 265-148-2	Asp. Tox.;1;H304	10 - 20
zinc	7440-66-6 231-175-3	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	2,5 - 10
Petroleum resins	64742-16-1 265-116-8	Aquatic Chronic;4;H413	2,5 - 10
1-isopropyl-2,2-	6846-50-0	Repr.;2;H361d	1 - 2,5

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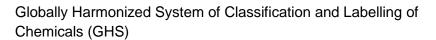
dimethyltrimethylene diisobutyrate	229-934-9	Aquatic Chronic;3;H412	
octadecylamine	124-30-1 204-695-3	;2;H315 ;1;H318 STOT RE;2;H373 Asp. Tox.;1;H304 Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,25 - 1

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move the victim to fresh air.	
		Move out of dangerous area. Show this safety data sheet to t Do not leave the victim unatten	
If inhaled	:	Remove to fresh air. If unconscious, place in recover advice. If symptoms persist, call a phys	
In case of skin contact	:	Wash off immediately with soap	and plenty of water.
In case of eye contact	:	Immediately flush eye(s) with pl Remove contact lenses. Keep eye wide open while rinsi If eye irritation persists, consult	ng.
If swallowed	:	Induce vomiting immediately ar	nd call a physician.
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Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Special powder against metal fi	re, Dry sand, ABC powder
Unsuitable extinguishing media	:	Water, High volume water jet, C	Carbon dioxide (CO2)
5.2 Special hazards arising from	n the	e substance or mixture	
Specific hazards during firefighting	:	Do not allow run-off from fire fig courses.	hting to enter drains or water
5.3 Advice for firefighters			
Special protective equipment for firefighters	:	Wear self-contained breathing a necessary.	apparatus for firefighting if
Further information	:	Standard procedure for chemic	al fires.
		Collect contaminated fire exting must not be discharged into dra contaminated fire extinguishing accordance with local regulation	ins. Fire residues and water must be disposed of in
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	measures that are appropriate to lo surrounding environment.	ocal circumstances and the
SECTION 6: Accidental release	se measures	
6.1 Personal precautions, protect	ctive equipment and emergency proce	edures
Personal precautions	: Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment	
6.2 Environmental precautions		
Environmental precautions	: The product should not be allowed courses or the soil.	to enter drains, water
	Prevent product from entering drain Prevent further leakage or spillage If the product contaminates rivers a respective authorities.	if safe to do so.
6.3 Methods and materials for co	ontainment and cleaning up	
Methods for cleaning up	: Use mechanical handling equipment	nt.
	Pick up and transfer to properly lab Do not flush with water. Contain spillage, and then collect w absorbent material, (e.g. sand, early vermiculite) and place in container local / national regulations (see sec	vith non-combustible th, diatomaceous earth, for disposal according to
	Soak up with inert absorbent mater acid binder, universal binder, sawd Keep in suitable, closed containers	ust).
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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition. No smoking.
		Normal measures for preventive fire protection.
Hygiene measures	:	General industrial hygiene practice.
		When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	 Keep away from sources of ignition - No smoking. Do not store near combustible materials. Keep containers tightly closed in a cool, well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. 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. 		
Further information on storage conditions	: Protect from humidity and water.		
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: Keep away from oxidizing agents, st strongly acid materials in order to av Do not store together with oxidizing a	oid exothermic reactions.
: Keep in a dry, cool and well-ventilate	ed place.
: No decomposition if stored and appli	ied as directed.
	 Keep away from oxidizing agents, st strongly acid materials in order to av Do not store together with oxidizing a Keep in a dry, cool and well-ventilate

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis	
copper	7440-50-8	AGW (inhalable fraction)	1 mg/m3		DE TRGS 900	
Distillates (petroleum), hydrotreated middle	64742-46- 7	AGW	600 mg/m3	2009-02-16	DE TRGS 900	
Peak-limit: excursion factor (category)		2;(II)				
Further information			limit for hydrocarbo ssion for dangerous)		also No. 2.9	
zinc	7440-66-6	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900	
Peak-limit: excursion factor (category)		2;(II)				
			00000000	1		

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Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
zinc	7440-66-6	AGW (Alveolate fraction) 1,25 mg/m3 2021-07-02 DE TRGS 900			
Peak-limit: excursion factor (category)		2;(II)			
Further information			ompliance with the no risk of harming t		cal tolerance

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
copper	7440-50-8	TWA	1 mg/m3	2008-01-01	
copper	7440-50-8	TWA (dust and mists)	1 mg/m3	2005-09-01	
copper	7440-50-8	TWA	1 mg/m3	1989-01-19	
copper	7440-50-8	TWA	0,2 mg/m3	2008-01-01	
copper	7440-50-8	TWA	0,1 mg/m3	1989-01-19	
copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	2010-03-01	
copper	7440-50-8	TWA (Fumes)	0,2 mg/m3	2010-03-01	
copper	7440-50-8	TWA (Dust)	1 mg/m3	2013-10-08	
copper	7440-50-8	TWA (Mist)	1 mg/m3	2013-10-08	
copper	7440-50-8	TWA (dusts and mists)	1 mg/m3	2011-07-01	
copper	7440-50-8	TWA (Fumes)	0,1 mg/m3	2011-07-01	
copper	7440-50-8	PEL (Fumes)	0,1 mg/m3	2014-11-26	
copper	7440-50-8	TWA (Fumes)	0,1 mg/m3	1989-01-19	
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copper	7440-50-8	TWA (Dust and mist)	1 mg/m3	1989-01-19
Distillates (petroleum), hydrotreated middle	64742-46- 7	TWA	500 ppm 2 000 mg/m3	2007-01-01
Distillates (petroleum), hydrotreated middle	64742-46- 7	TWA	400 ppm 1 600 mg/m3	1989-01-19
Distillates (petroleum), hydrotreated middle	64742-46- 7	TWA	5 mg/m3	1989-01-19
Distillates (petroleum), hydrotreated middle	64742-46- 7	TWA (Mist)	5 mg/m3	2018-03-15
Distillates (petroleum), hydrotreated middle	64742-46- 7	TWA (Mist)	5 mg/m3	1989-01-19
Distillates (petroleum), hydrotreated middle	64742-46- 7	TWA (Mist)	5 mg/m3	2019-10-04
Distillates (petroleum), hydrotreated middle	64742-46- 7	ST (Mist)	10 mg/m3	2019-10-04
Distillates (petroleum), hydrotreated middle	64742-46- 7	PEL (particulate)	5 mg/m3	2017-12-05
zinc	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01
zinc	7440-66-6	TWA (total dust)	15 mg/m3	2012-07-01
zinc	7440-66-6	TWA (respirable	5 mg/m3	2012-07-01
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		fraction)		
zinc	7440-66-6	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01
zinc	7440-66-6	PEL (Total dust)	10 mg/m3	2014-11-26
zinc	7440-66-6	PEL (respirable dust fraction)	5 mg/m3	2014-11-26
Safflower oil	8001-23-8	TWA (mist - total)	10 mg/m3	2013-10-08
Safflower oil	8001-23-8	TWA (mist - respirable)	5 mg/m3	2013-10-08
Safflower oil	8001-23-8	PEL (Total dust)	10 mg/m3	2014-11-26
Safflower oil	8001-23-8	PEL (respirable dust fraction)	5 mg/m3	2014-11-26

8.2 Exposure controls

Personal protective	equipment			
Eye protection	:	Safety glasses		
	:	Tightly fitting safety goggles Wear face-shield and protective problems.	e suit for abnormal processing	
Hand protection				
Material	:	Solvent-resistant gloves (butyl-	rubber)	
Remarks	:	: Take note of the information given by the producer concerr permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact		
		The exact break through time can be obtained from the protective glove producer and this has to be observed.		
		Please observe the instructions	regarding permeability and	
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		breakthrough time which are provided by gloves. Also take into consideration the conditions under which the product is u danger of cuts, abrasion, and the conta	specific local sed, such as the
		Recommended preventive skin protecti	on
		Skin should be washed after contact.	
		The suitability for a specific workplace s with the producers of the protective glo	
	:	The suitability for a specific workplace s with the producers of the protective glo	
Skin and body protection	:	Impervious clothing	
		Choose body protection according to the concentration of the dangerous substar	
Respiratory protection	:	Use suitable breathing protection if wor requires.	kplace concentration
		Equipment should conform to EN 1438	7
Environmental exposure o	ontr	nls	
General advice	:	The product should not be allowed to e courses or the soil.	nter drains, water
	:	Prevent product from entering drains. Prevent further leakage or spillage if sa If the product contaminates rivers and I respective authorities.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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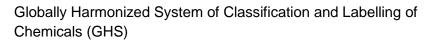
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Appearance	: liquid	
Colour	: gold	
Odour	: characteristic	
рН	: substance/mixture is not	on-soluble (in water)
Freezing point	: No data available	
Boiling point/boiling range	: > 100 °C	
Flash point	: >100 °C	
Bulk density	: No data available	
Flammability (solid, gas)	: No data available	
Auto-flammability	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Density	: No data available	
Solubility(ies)		
Water solubility	: insoluble	
Miscibility with water	: immiscible	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/wate	er : No data available	
Ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity		
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: >22 mm2/s (40 °C)	

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Flow time

: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: Stable under recommended storage conditions.	
	No decomposition if stored and applied as directed.	
10.4 Conditions to avoid		
Conditions to avoid	: Do not allow evaporation to dryness.	
	No data available	
10.5 Incompatible materials		
Materials to avoid	: No data available	
10.6 Hazardous decomposition pr	oducts	
Hazardous decomposition products Other information	: : Carbon monoxide, carbon dioxide and unburned	

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hydrocarbons (smoke).



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

copper:

Acute oral toxicity

: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

Product

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product

May cause irreversible eye damage.

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available





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Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

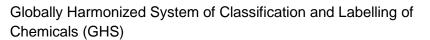
Product

No data available

SECTION 12: Ecological information

12.1 Toxicity

<u>Components:</u> copper (7440-50-8) :		
M-Factor Ecotoxicology Assessment	: 10	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.	
Long-term (chronic) aquatic hazard zinc (7440-66-6) :	: Very toxic to aquatic life with lo	ng lasting effects.
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Ecotoxicology Assessment

0,	
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects.
Petroleum resins (64742-16-	1) :
Ecotoxicology Assessment	
Long-term (chronic) aquatic hazard	: May cause long lasting harmful effects to aquatic life.
1-isopropyl-2,2-dimethyltrim	ethylene diisobutyrate (6846-50-0) :
Toxicity to daphnia and other aquatic invertebrates Ecotoxicology Assessment	: (Daphnia (water flea)): 2,46 mg/l
Long-term (chronic) aquatic hazard octadecylamine (124-30-1) :	: Harmful to aquatic life with long lasting effects.
M-Factor Ecotoxicology Assessment	: 10
Short-term (acute) aquatic hazard	: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard	: Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Product:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADR	:	3082

TDG

Not dangerous goods

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CFR			
Not dang	erous goods		
IMDG	:	3	3082
ΙΑΤΑ	:	3	3082
14.2 Proper s	shipping name		
ADR	:	١	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		((Copper metal powder)
TDG			
•	erous goods		
CFR			
Not dang	erous goods		
IMDG	:	١	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
			(,Copper metal powder)
ΙΑΤΑ	:		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		((Copper metal powder)
14.3 Transpo	rt hazard class		
ADR	:	ę	9
TDG			
Not dang	erous goods		
CFR			
Not dang	erous goods		
IMDG	:	Ş	9
ΙΑΤΑ	:	ę	9
14.4 Packing	group		



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ADR

	Packaging group	:	III
	Classification Code	:	M6
	Hazard Identification Number	:	90
	Labels	:	9
	Tunnel restriction code	:	(-)
	TDG		
	Not dangerous goods		
	CFR		
	Not dangerous goods		
	IMDG		
	Packaging group	:	III
	Labels	:	9
	ΙΑΤΑ		
	Packing instruction (cargo aircraft)	:	964
	Packing instruction (passenger aircraft)	:	964
	Packing instruction (LQ)	:	Y964
	Packaging group	:	III
	Labels	:	9
14.5	Environmental hazards		
	ADR	:	Environmentally hazardous
	IMDG	:	Marine pollutant

14.6 Special precautions for user

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For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

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

No data available

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (Distillates (petroleum), hydrotreated middle; Gasoil — unspecified) (1-isopropyl-2,2- dimethyltrimethylene diisobutyrate) (manganese neodecanoate)

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15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.	
H304	: May be fatal if swallowed and enters airways.		
H315	:	Causes skin irritation.	
H318	:	: Causes serious eye damage.	
H319	:	Causes serious eye irritation.	
H361d	:	Suspected of damaging the unborn child.	
H373	:	May cause damage to organs through prolonged or repeated	
		exposure if swallowed.	
H400	:	Very toxic to aquatic life.	
H410	:	Very toxic to aquatic life with long lasting effects.	
H412	:	Harmful to aquatic life with long lasting effects.	
H413	:	May cause long lasting harmful effects to aquatic life.	

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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