

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	AFJ GREASE
Registration number	-
UFI:	N500-C029-F00Y-D7W4
Synonyms	None.
SDS number	1030-T20960-2
Product code	AFJ+70, AFJ+400
Issue date	13-September-2012
Version number	05
Revision date	18-January-2023
Supersedes date	18-September-2019

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

Identified uses	Industrial lubricating grease
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

THK Co.,LTD	HEAD OFFICE: 2-12-10, Shibaura, Minato-ku, Tokyo 108-8506 Japan
THK UK	Suite W6, Harbour Buildings West, The Waterfront, Brierley Hill, West Midlands, DY5 1LN, U.K.
Telephone	+44(0)1384 471550
Fax	+44(0)1384 471551
THK GmbH	Kaiserswerther Strasse 115, D-40880 Ratingen, Germany
Telephone	+49(0)2102-7425-555
E-mail	info-msds@thk.eu (THK GmbH), thk022@thk.co.jp (THK Co., LTD)

1. 4 Emergency telephone number	+44(0)1384 471550 at workday 8 am - 5 pm (THK UK office) +49(0)2102-7425-222 at local workday time 8 am- 5 pm (THK GmbH)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Respiratory sensitisation	Category 1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Environmental hazards		
Hazardous to the aquatic environment, acute aquatic hazard	Category 1	H400 - Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term aquatic hazard	Category 1	H410 - Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:	N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea], Zinc bis(dinonylnaphthalenesulphonate)
Hazard pictograms	

Signal word	Danger
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Hazard statements

H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P261	Avoid breathing mist/vapour.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.

Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE/doctor.
P391	Collect spillage.

Storage

None.

Disposal

None.

Supplemental information on the label

None.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Distillates (petroleum), hydrotreated heavy paraffinic	80 - 90	64742-54-7 265-157-1	-	649-467-00-8	
Classification: -					L
N,N'-(Methylenedi-4,1-phenylene)bis[N'-octylurea]	5 - 15	122886-55-9 430-930-6	01-2120106785-55-XXXX	616-204-00-3	
Classification: Eye Dam. 1;H318, Resp. Sens. 1;H334, Aquatic Acute 1;H400(M=100), Aquatic Chronic 1;H410(M=100)					
Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes	2 - 5	- 948-019-1	01-2120785606-42-XXXX	-	
Classification: Aquatic Chronic 4;H413					
Zinc bis(dinonylnaphthalenesulphonate)	2 - 5	28016-00-4 248-778-2	-	-	
Classification: Skin Irrit. 2;H315, Eye Dam. 1;H318					
phenol, dodecyl-, branched	< 0.2	121158-58-5 310-154-3	01-2119513207-49-XXXX	604-092-00-9	
Classification: Skin Corr. 1C;H314, Eye Dam. 1;H318, Repr. 1B;H360F, Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410(M=10)					

List of abbreviations and symbols that may be used above

M: M-factor

Note L - The harmonized classification as a carcinogen does not apply because the substance contains less than 3 % DMSO extractable material as measured by IP 346.

#: This substance has workplace exposure limit(s).

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The exact concentrations of the above listed chemicals are being withheld as a trade secret. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: call a poison centre or doctor / physician.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Will burn if involved in a fire.

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media Do not use water or halogenated extinguishing media.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterised.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Use water spray to cool unopened containers. Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate protective equipment and clothing during clean-up. In case of spills, beware of slippery floors and surfaces.

For emergency responders Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Be aware of potential for surfaces to become slippery.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

The product is insoluble in water and will spread on the water surface. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not get this material in contact with eyes. Avoid breathing mist/vapour. Avoid prolonged and repeated contact with grease, particularly used grease. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Be aware of potential for surfaces to become slippery. Always remove grease with soap and water or skin cleaning agent, never use organic solvents. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E1 Hazardous to the Aquatic Environment Acute (Lower-tier requirements = 100 tonnes; Upper-tier requirements = 200 tonnes)

- E1 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 100 tonnes; Upper-tier requirements = 200 tonnes)

7.3. Specific end use(s)

Industrial lubricating grease. Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Molybdenum compounds	STEL	10 mg/m3
	TWA	5 mg/m3

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General population

Components	Value	Assessment factor	Notes
N,N'-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)			
Long-term, Systemic, Dermal	3.75 mg/kg	120	Repeated dose toxicity
Long-term, Systemic, Inhalation	13 mg/m3	30	Repeated dose toxicity
Long-term, Systemic, Oral	3.75 mg/kg	120	Repeated dose toxicity
phenol, dodecyl-, branched (CAS 121158-58-5)			
Long-term, Systemic, Dermal	0.075 mg/kg	200	developmental toxicity / teratogenicity
Long-term, Systemic, Inhalation	0.79 mg/m3	50	developmental toxicity / teratogenicity
Long-term, Systemic, Oral	0.075 mg/kg	200	developmental toxicity / teratogenicity
Short-term, Systemic, Dermal	50 mg/kg	100	Acute toxicity
Short-term, Systemic, Inhalation	13.26 mg/m3	250	Acute toxicity
Short-term, Systemic, Oral	1.26 mg/kg	1000	Acute toxicity

Workers

Components	Value	Assessment factor	Notes
N,N'-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)			
Long-term, Systemic, Dermal	6.25 mg/kg	72	Repeated dose toxicity
Long-term, Systemic, Inhalation	44 mg/m3	18	Repeated dose toxicity
phenol, dodecyl-, branched (CAS 121158-58-5)			
Long-term, Systemic, Dermal	0.25 mg/kg	60	developmental toxicity / teratogenicity
Short-term, Systemic, Dermal	166 mg/kg	30	Acute toxicity
Short-term, Systemic, Inhalation	44.18 mg/m3	75	Acute toxicity

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
phenol, dodecyl-, branched (CAS 121158-58-5)			
Freshwater	0.074 µg/l	50	Oral
Marine water	0.007 µg/l	500	
Secondary poisoning	4 mg/kg	300	
Sediment (freshwater)	0.226 mg/kg		
Sediment (marine water)	0.027 mg/kg		
Soil	0.118 mg/kg		
STP	100 mg/l	10	

Exposure guidelines

Occupational Exposure Limits are not relevant to the current physical form of the product.

8.2. Exposure controls

Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station.
Individual protection measures, such as personal protective equipment	
General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Wear safety glasses with side shields (or goggles) and a face shield. Use eye protection conforming to EN 166.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement rules are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove manufacturer and model. Suitable gloves can be recommended by the glove supplier.
- Other	Use of an impervious apron is recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.
Respiratory protection	In case of inadequate ventilation, when the product is heated, or risk of inhalation of oil mist, use suitable respiratory equipment with gas filter (type A2). Follow guidance on selection, use, care and maintenance in accordance with EN 529.
Thermal hazards	When material is heated, wear gloves to protect against thermal burns.
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Solid.
Form	Paste.
Colour	Dark yellow.
Odour	Slight.
Odour threshold	Not available.
pH	Material is non soluble in water.
Melting point/freezing point	185 °C (365 °F)
Initial boiling point and boiling range	Property has not been measured.
Flash point	210 °C (410 °F) Setaflash
Evaporation rate	Not applicable, material is a solid.
Flammability (solid, gas)	Not flammable. Will burn if involved in a fire.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)	Property has not been measured.
Explosive limit – upper (%)	Property has not been measured.
Vapour pressure	Not applicable, material is a solid.

Vapour density	Not applicable, material is a solid.
Relative density	0.87
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not applicable, product is a mixture.
Auto-ignition temperature	Not applicable, material is a solid.
Decomposition temperature	Not applicable as the product is not unstable.
Viscosity	Not applicable, material is a solid.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Density	Property has not been measured.
Flash point class	Combustible IIIB
Kinematic viscosity	Not applicable, material is a solid.

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Will not occur.
10.4. Conditions to avoid	Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.
Skin contact	Prolonged skin contact may cause irritation.
Eye contact	Causes serious eye damage.
Ingestion	Expected to be a low ingestion hazard.
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing.

11.1. Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.	
Components	Species	Test Results
Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes (CAS -)		
<u>Acute</u>		
Oral		
LD50	Rat	> 2000 mg/kg (OECD 401)
N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	> 2000 mg/kg
phenol, dodecyl-, branched (CAS 121158-58-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	15000 mg/kg (OECD 402)

Components	Species	Test Results
Oral LD50	Rat	2100 mg/kg (OECD 401)
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Corrosivity phenol, dodecyl-, branched (CAS 121158-58-5)		OECD Test Guideline 404 Result: Irritating. Species: Rabbit
N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)		OECD Test Guideline 404, GLP Result: No skin irritation. Species: Rabbit
Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes		Skin irritation test Result: No skin irritation. Species: Human Organ: Skin model
Serious eye damage/eye irritation	Causes serious eye damage.	
Eye Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes		In Vitro Eye Irritation Test Result: No eye irritation. Species: Cattle
phenol, dodecyl-, branched (CAS 121158-58-5)		OECD Test Guideline 405 Result: Not irritating. Species: Rabbit
N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)		OECD Test Guideline 405, GLP Result: Irreversible effects on the eye. Species: Rabbit
Respiratory sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitisation	Based on available data, the classification criteria are not met.	
Sensitisation N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)		OECD Test Guideline 429, GLP Result: Not sensitizing. Species: Mouse
Skin Sensitisation Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes		Maximization Test Result: Not sensitizing. Species: Guinea pig
phenol, dodecyl-, branched (CAS 121158-58-5)		OECD Test Guideline 406 Result: Not sensitising. Species: Guinea pig
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Mutagenicity phenol, dodecyl-, branched (CAS 121158-58-5)		OECD Test Guideline 471 Result: Negative. Species: Salmonella typhimurium
Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes		OECD Test Guideline 471, GLP Result: Negative. Species: Salmonella typhimurium
N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)		OECD Test Guideline 471, GLP Result: Negative. Species: Salmonella typhimurium
phenol, dodecyl-, branched (CAS 121158-58-5)		OECD Test Guideline 474 Result: Negative. Species: Rat
Carcinogenicity	Prolonged and repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.	
Reproductive toxicity	Based on available data, the classification criteria are not met.	
Reproductivity phenol, dodecyl-, branched (CAS 121158-58-5)		OECD Test Guideline 416 Result: The NOAEL for F0 and F1 parental toxicity was considered to be 15 and 1.5 mg/kg/day, respectively. The NOAEL for male and female reproductive toxicity was considered to be 15 mg/kg/day. Species: Rat
N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)		OECD Test Guideline 421 Result: Negative. Species: Rat

Specific target organ toxicity - single exposure Due to lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Based on available data, the classification criteria are not met.

N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)	NOAEL, Oral Result: 450 mg/kg bw/day Species: Rat
Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes	OECD Test Guideline 422 Result: NOAEL: 1000 mg/kg/day Species: Rat

Aspiration hazard Due to the physical form of the product it is not expected to be an aspiration hazard.

Mixture versus substance information No information available.

Other information No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes (CAS -)			
Aquatic			
Crustacea	EL50	Daphnia magna	82 mg/l, 48 hours (OECD 202, GLP)
Fish	LL50	Oncorhynchus mykiss	100 mg/l, 96 hours (OECD 203, GLP)
Other	EC50	Activated sludge	> 1000 mg/l, 3 hours (OECD 209, GLP)
N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)			
Aquatic			
Other	EC50	Activated sludge	> 1000 mg/l, 3 hours (OECD Guideline 209, GLP)
	NOEC	Activated sludge	1000 mg/l, 3 hours (OECD Guideline 209, GLP)
phenol, dodecyl-, branched (CAS 121158-58-5)			
Aquatic			
Algae	EC50	Scenedesmus subspicatus	0.36 mg/l, 72 hours (OECD 201)
	NOEC	Scenedesmus subspicatus	0.07 mg/l, 72 hours (OECD 201)
Crustacea	EC50	Daphnia magna	0.37 mg/l, 48 hours (OECD 202)
			0.004 mg/l, 21 days (OECD 211)
Fish	LC50	Fathead minnow	40 mg/l, 96 hours (OECD 203)

12.2. Persistence and degradability None known.

12.3. Bioaccumulative potential None known.

Partition coefficient n-octanol/water (log Kow)

Molybdenum, N,N-bis(C11-14-branched and linear alkyl)carbamodithioate oxo thioxo complexes	24.492, (Log Pow)
N,N''-(Methylenedi-4,1-phenylene)bis[N'-octylurea] (CAS 122886-55-9)	6, (26 °C (78,8 °F))
phenol, dodecyl-, branched (CAS 121158-58-5)	7.14

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects Greases are generally hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code	20 01 26* The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

Retained direct EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Zinc bis(dinonylnaphthalenesulphonate) (CAS 28016-00-4)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

phenol, dodecyl-, branched (CAS 121158-58-5)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances
Hazard categories in accordance with Regulation (EC) No 1272/2008
- E1 Hazardous to the Aquatic Environment Acute
- E1 Hazardous to the Aquatic Environment Chronic

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

This product is classified and labelled in accordance with the retained CLP Regulation (EC) No 1272/2008, as amended for Great Britain.

This Safety Data Sheet is compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758.

Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended.

Follow the requirements of the Control of Substances Hazardous to Health Regulations 2002 [SI 2002/2677], as amended, when using this material.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

EC50: Effective Concentration, 50%.

EL50: Effective level, 50%.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

LL50: Lethal level, 50%.

MARPOL: International Convention for the Prevention of Pollution from Ships.

NOAEL: No observed adverse effect level.

NOEC: No observed effect concentration.

PBT: Persistent, bioaccumulative and toxic.

PEL: Permissible Exposure Limit.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulative.

References

ECHA: European Chemical Agency.

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H360F May damage fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Training information

Follow training instructions when handling this material.

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