

SAFETY DATA SHEET

Version #: 02
Issue date: 02-September-2021
Revision date: 19-December-2022
Supersedes date: 02-September-2021

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

1.1. Product identifier

Trade name or designation of the mixture AFF GREASE

Registration number -

UFI:

Austria: D200-U0CW-500F-QWA0
Belgium: D200-U0CW-500F-QWA0
Bulgaria: D200-U0CW-500F-QWA0
Croatia: D200-U0CW-500F-QWA0
Cyprus: D200-U0CW-500F-QWA0
Czech Republic: D200-U0CW-500F-QWA0
Denmark: D200-U0CW-500F-QWA0
EU: D200-U0CW-500F-QWA0
Estonia: D200-U0CW-500F-QWA0
Finland: D200-U0CW-500F-QWA0
France: D200-U0CW-500F-QWA0
Germany: D200-U0CW-500F-QWA0
Great Britain: D200-U0CW-500F-QWA0
Greece: D200-U0CW-500F-QWA0
Hungary: D200-U0CW-500F-QWA0
Iceland: D200-U0CW-500F-QWA0
Ireland: D200-U0CW-500F-QWA0
Italy: D200-U0CW-500F-QWA0
Latvia: D200-U0CW-500F-QWA0
Lithuania: D200-U0CW-500F-QWA0
Luxembourg: D200-U0CW-500F-QWA0
Malta: D200-U0CW-500F-QWA0
Netherlands: D200-U0CW-500F-QWA0
Norway: D200-U0CW-500F-QWA0
Poland: D200-U0CW-500F-QWA0
Portugal: D200-U0CW-500F-QWA0
Romania: D200-U0CW-500F-QWA0
Slovakia: D200-U0CW-500F-QWA0
Slovenia: D200-U0CW-500F-QWA0
Spain: D200-U0CW-500F-QWA0
Sweden: D200-U0CW-500F-QWA0

Synonyms None.

SDS number 1030-T25002-2

Product code AFF+70, AFF+400

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 GmbH: Kaiserswerther Strasse 115, D-40880 Ratingen, Germany
+49-(0)2102-7425-555 (THK GmbH)
info-msds@thk.eu (THK GmbH), thk022@thk.co.jp (THK Co., LTD)
+49-(0) 2102-7425-222 at workday 8 am - 5 pm (THK GmbH)

Telephone

E-mail

1.4. Emergency telephone number

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.

AFF GREASE

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SDS EU

1 / 12

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

Health hazards

Skin sensitisation Category 1

H317 - May cause an allergic skin reaction.

Germ cell mutagenicity Category 2

H341 - Suspected of causing genetic defects.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard Category 3

H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Contains: Diphenyl phosphonate, N-1-naphthylaniline

Hazard pictograms



Signal word Warning

Hazard statements

H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201 Obtain special instructions before use.
P261 Avoid breathing mist/vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

Not available.

Disposal

Not available.

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. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight. The mixture does not contain any substances having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
N-1-naphthylaniline	1 - 5	90-30-2 201-983-0	-	-	Classification: Acute Tox. 4;H302;(ATE: 1625 mg/kg bw), Skin Sens. 1B;H317, STOT RE 2;H373, Aquatic Acute 1;H400, Aquatic Chronic 1;H410
Hydrocarbon waxes (petroleum), oxidized, Me esters	2	68602-85-7 271-626-1	-	-	Classification: Eye Irrit. 2;H319
Diphenyl phosphonate	1	4712-55-4 225-202-8	-	-	Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Irrit. 2;H315, Eye Irrit. 2;H319, Skin Sens. 1;H317, Muta. 2;H341, STOT RE 2;H373, Aquatic Acute 1;H400, Aquatic Chronic 2;H411

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2,6-di-tert-butyl-p-cresol	< 1	128-37-0 204-881-4	-	-	
Classification: Aquatic Acute 1;H400, Aquatic Chronic 1;H410					

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

#: This substance has been assigned Union 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. Components not listed are either non-hazardous or are below reportable limits. 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. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

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

May cause an allergic skin reaction. Dermatitis. Rash.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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

For emergency responders

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

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

Prevent product from entering drains. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. The product is insoluble in water and will spread on the water surface.

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

Avoid breathing mist/vapour. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Avoid prolonged and repeated contact with grease, particularly used grease. When working with heated grease, mechanical ventilation may be required. Be aware of potential for surfaces to become slippery. Always remove grease with soap and water or skin cleaning agent, never use organic solvents.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see section 10 of the SDS).

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

Austria. MAK List Components

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	MAK	10 mg/m ³

Belgium. Exposure Limit Values Components

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	2 mg/m ³	Vapour and aerosol.
Lithium stearate (CAS 4485-12-5)	TWA	10 mg/m ³	
Mineral oil	STEL	10 mg/m ³	Mist.
	TWA	5 mg/m ³	Mist.

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work Components

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	STEL	50 mg/m ³
	TWA	10 mg/m ³
Mineral oil	TWA	5 mg/m ³

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended Components

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	MAC	10 mg/m ³

Czech Republic. OELs. Government Decree 361 Components

Components	Type	Value	Form
Mineral oil	Ceiling	10 mg/m ³	Aerosol
	TWA	5 mg/m ³	Aerosol

Denmark. Exposure Limit Values Components

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TLV	10 mg/m ³	
Mineral oil	TLV	1 mg/m ³	Mist.

Finland. Workplace Exposure Limits Components

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	STEL	20 mg/m ³	
	TWA	10 mg/m ³	
Mineral oil	TWA	5 mg/m ³	Mist.

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	VME	10 mg/m3

Regulatory status: Indicative limit (VL)

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	Vapor and aerosol, inhalable fraction.
Mineral oil	TWA	5 mg/m3	Respirable fraction.
N-1-naphthylaniline (CAS 90-30-2)	TWA	2 mg/m3	Inhalable fraction.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	AGW	10 mg/m3	Inhalable fraction.
N-1-naphthylaniline (CAS 90-30-2)	AGW	2 mg/m3	Inhalable fraction.

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	
Mineral oil	TWA	5 mg/m3	Mist.

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
Mineral oil	TWA	5 mg/m3

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	
Mineral oil	TWA	1 mg/m3	Mist.

Ireland. Occupational Exposure Limits

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	2 mg/m3
Lithium stearate (CAS 4485-12-5)	TWA	10 mg/m3

Italy. OELs

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.
Lithium stearate (CAS 4485-12-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Mineral oil	TWA	5 mg/m3	Inhalable fraction.

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Type	Value
Mineral oil	TWA	5 mg/m3

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Components	Type	Value	Form
Lithium stearate (CAS 4485-12-5)	TWA	5 mg/m3	
Mineral oil	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

Netherlands. OELs (binding)

Components	Type	Value	Form
Mineral oil	TWA	5 mg/m3	Mist.

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
Mineral oil	TLV	1 mg/m3	Mist.

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	2 mg/m3	Inhalable fraction and vapour.
Lithium stearate (CAS 4485-12-5)	TWA	10 mg/m3	
Mineral oil	TWA	5 mg/m3	Inhalable fraction.

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value	
Mineral oil	STEL	10 mg/m3	
	TWA	5 mg/m3	

Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

Components	Type	Value	Form
Mineral oil	TWA	1 mg/m3	Fume and mist.
		5 ppm	Fume and mist.

Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents

Components	Type	Value	Form
Mineral oil	STEL	3 mg/m3	Fume and mist.
		15 ppm	Fume and mist.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	Inhalable fraction.

Spain. Occupational Exposure Limits

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 mg/m3	
Lithium stearate (CAS 4485-12-5)	TWA	10 mg/m3	
Mineral oil	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Type	Value	Form
Lithium stearate (CAS 4485-12-5)	Ceiling	0,02 mg/m3	Inhalable dust.
	TWA	5 mg/m3	Total dust.
Mineral oil	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	STEL	40 mg/m3	Vapor and aerosol, inhalable.
	TWA	10 mg/m3	Vapor and aerosol, inhalable.
Mineral oil	TWA	5 mg/m3	Inhalable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	TWA	10 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)	Not available.	
Predicted no effect concentrations (PNECs)	Not available.	
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.	
Individual protection measures, such as personal protective equipment		
General information	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). Use eye protection conforming to EN 166.	
Skin protection		
- Hand protection	Wear protective 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 maybe 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.	
- Other	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. Contaminated work clothing should not be allowed out of the workplace.	
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**

Physical state	Solid.
Form	Paste.
Colour	Light yellow.
Odour	Slight.
Melting point/freezing point	Property has not been measured.
Boiling point or initial boiling point and boiling range	Property has not been measured.
Flammability	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.
Flash point	Property has not been measured.
Auto-ignition temperature	Not applicable, material is a solid.
Decomposition temperature	Not applicable as the product is not unstable.
pH	Material is non soluble in water.
Kinematic viscosity	Not applicable, material is a solid.
Solubility	
Solubility (water)	Insoluble in water.
Partition coefficient (n-octanol/water) (log value)	Not applicable, product is a mixture.
Vapour pressure	Not applicable, material is a solid.
Density and/or relative density	
Density	Property has not been measured.
Relative density	Property has not been measured.
Vapour density	Not applicable, material is a solid.
Particle characteristics	Property has not been measured.
9.2. Other information	
9.2.1. Information with regard to physical hazard classes	No relevant additional information available.
9.2.2. Other safety characteristics	
Evaporation rate	Not applicable, material is a solid.
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	Contact with incompatible materials. Heat, sparks, flames, elevated temperatures.
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	Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.
Skin contact	May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms	May cause an allergic skin reaction. Dermatitis. Rash.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	The harmful effects may increase when exposed to used grease.
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Components	Species	Test Results
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N-1-naphthylaniline (CAS 90-30-2)

Acute

Oral

LD50

Rat

1625 mg/kg

Skin corrosion/irritation Due to lack of data the classification is not possible.

Serious eye damage/eye irritation Due to lack of data the classification is not possible.

Respiratory sensitisation Due to lack of data the classification is not possible.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	Due to lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	3 Not classifiable as to carcinogenicity to humans.
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Reproductive toxicity	Due to lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to lack of data the classification is not possible.
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.

11.2. Information on other hazards

Endocrine disrupting properties	The mixture contains substance(s) considered to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
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Other information	None known.
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SECTION 12: Ecological information

12.1. Toxicity	Harmful to aquatic life with long lasting effects.
12.2. Persistence and degradability	None known.
12.3. Bioaccumulative potential	None known.
Partition coefficient n-octanol/water (log Kow)	
2,6-di-tert-butyl-p-cresol (CAS 128-37-0)	5,1
N-1-naphthylaniline (CAS 90-30-2)	4,2
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. Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
12.7. 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	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. 20 01 26*
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. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
Hazard No. (ADR)	Not assigned.

Tunnel restriction code Not assigned.
14.4. Packing group Not assigned.
14.5. Environmental hazards No.
14.6. Special precautions Not assigned.
for user

RID

14.1. UN number Not regulated as dangerous goods.
14.2. UN proper shipping name Not regulated as dangerous goods.
14.3. Transport hazard class(es)
Class Not assigned.
Subsidiary risk -
14.4. Packing group Not assigned.
14.5. Environmental hazards No.
14.6. Special precautions Not assigned.
for user

ADN

14.1. UN number Not regulated as dangerous goods.
14.2. UN proper shipping name Not regulated as dangerous goods.
14.3. Transport hazard class(es)
Class Not assigned.
Subsidiary risk -
14.4. Packing group Not assigned.
14.5. Environmental hazards No.
14.6. Special precautions Not assigned.
for user

IATA

14.1. UN number Not regulated as dangerous goods.
14.2. UN proper shipping name Not regulated as dangerous goods.
14.3. Transport hazard class(es)
Class Not assigned.
Subsidiary risk -
14.4. Packing group Not assigned.
14.5. Environmental hazards No.
14.6. Special precautions Not assigned.
for user

IMDG

14.1. UN number Not regulated as dangerous goods.
14.2. UN proper shipping name Not regulated as dangerous goods.
14.3. Transport hazard class(es)
Class Not assigned.
Subsidiary risk -
14.4. Packing group Not assigned.
14.5. Environmental hazards
Marine pollutant No.
EmS Not assigned.
14.6. Special precautions Not assigned.
for user

14.7. Maritime transport in bulk according to IMO instruments Not applicable.

SECTION 15: Regulatory information

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

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

Not listed.

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

Not listed.

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.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

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

Not listed.

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

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

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardization.

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.

LD50: Lethal Dose, 50%.

MAC: Maximum Allowed Concentration.

MAK: Maximum Workplace Concentrations ("Maximale Arbeitsplatzkonzentrationen").

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

PBT: Persistent, bioaccumulative and toxic.

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

STEL: Short term exposure limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

VME: Exposure Average Value.

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**

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure by ingestion.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Training information

Issued by

Follow training instructions when handling this material.

THK Co.,LTD

HEAD OFFICE: 2-12-10, Shibaura, Minato-ku, Tokyo 108-8506
Japan

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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