CRO

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation HIGH TEMP GREASE

of the mixture

Registration number -

Synonyms None.

Product code BDS002035BU Issue date 22-June-2022

Version number 1.0

Revision date 22-June-2022

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

Uses advised against

1.3. Details of the supplier of the safety data sheet

Company name CRC Industries Europe by

Address Touwslagerstraat 1

9240 Zele Belgium

 Telephone
 +32(0)52/45.60.11

 Fax
 +32(0)52/45.00.34

 E-mail
 hse@crcind.com

 Website
 www.crcind.com

1.4. Emergency telephone

Tel.: +32(0)52/45.60.11 (office hours: 9-17h CET)

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.

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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Health hazards

Serious eye damage/eye irritation Category 2

Environmental hazards

Hazardous to the aquatic environment, Category 3

long-term aquatic hazard

2.2. Label elements

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

Hazard pictograms None.
Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

PreventionNot applicable.ResponseNot applicable.StorageNot applicable.DisposalNot applicable.

Supplemental label information EUH208 - Contains Dipentylammonium dipentyldithiocarbamate; Naphthenic acids, zinc salts. May

produce an allergic reaction.

EUH210 - Safety data sheet available on request.

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 product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Material name: HIGH TEMP GREASE

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SECTION 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2,2,4-trimethyl-1H-quinoline	<5	26780-96-1 500-051-3	01-2119486783-23	-	
Classification: -					
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	<5	4259-15-8 224-235-5	01-2119493635-27	-	
Classification: A	quatic (Chronic 2;H411			
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	<1	1471316-72-9 -	01-2119978241-36	-	
Classification: -					
Dipentylammonium dipentyldithiocarbamate	<1	71902-20-0 276-172-8	01-2120793078-43	-	
Classification: -					
Naphthenic acids, zinc salts	<1	12001-85-3 234-409-2	01-2120783834-41	-	
Classification: E	ye Irrit.	2;H319, Skin Sens. 1;l	H317, Aquatic Chronic 2;H41	1	

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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

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

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

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

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms

Exposure may cause temporary irritation, redness, or discomfort.

and effects, both acute and delayed

4.3. Indication of any

Treat symptomatically.

immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards

No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

media

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

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

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate personal protective equipment.

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. For emergency responders

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). 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

Avoid prolonged exposure. Observe good industrial hygiene practices.

handling

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)

Storage class (TRGS 510): 10 (Combustible liquids that cannot be assigned to any of the above

storage classes)

Not available. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

Components	Value	Assessment factor	Notes	
2,2,4-trimethyl-1H-quinoline (CAS 26780-	96-1)			
Long-term, Systemic, Dermal	0.6 mg/kg	20	Repeated dose toxicity	
Long-term, Systemic, Inhalation	1.8 mg/m3	20	Repeated dose toxicity	
Benzenesulfonic acid, di-C10-14-alkyl der	vs., calcium salts (CAS 14	71316-72-9)		
Long-term, Systemic, Dermal	12.5 mg/kg	12.5 mg/kg 200 Repeated do		
Long-term, Systemic, Inhalation	8.7 mg/m3	50	Repeated dose toxicity	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithioph	nosphate) (CAS 4259-15-8)		
Long-term, Systemic, Dermal	4.8 mg/kg	4.8 mg/kg 240		
Long-term, Systemic, Inhalation	1.67 mg/m3	mg/m3 Repeated do		
Workers				
Components	Value	Assessment factor	Notes	
2,2,4-trimethyl-1H-quinoline (CAS 26780-	96-1)			
Long-term, Systemic, Dermal	1 mg/kg	12	Repeated dose toxicity	
Long-term, Systemic, Inhalation	7 mg/m3	12	Repeated dose toxicity	
Benzenesulfonic acid, di-C10-14-alkyl der	vs., calcium salts (CAS 14	71316-72-9)		
Long-term, Systemic, Dermal	25 mg/kg	100	Repeated dose toxicity	
Long-term, Systemic, Inhalation	35.26 mg/m3	25	Repeated dose toxicity	
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithioph	nosphate) (CAS 4259-15-8)		
Long-term, Systemic, Dermal	9.6 mg/kg	120	Repeated dose toxicity	
Long-term, Systemic, Inhalation	6.6 mg/m3	30	Repeated dose toxicity	
dicted no effect concentrations (PNECs)				
Components	Value	Assessment factor	Notes	
2,2,4-trimethyl-1H-quinoline (CAS 26780-9	96-1)			
Freshwater	0.056 mg/l	1000		
Secondary poisoning	8 mg/kg	30	Oral	

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Sediment (freshwater) 21 mg/kg Soil 4.2 mg/kg

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts (CAS 1471316-72-9)

Freshwater 0.1 mg/l 1000

Sediment (freshwater) 45211 mg/kg Soil 36739.74 mg/kg

STP 1000 mg/l 10

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8)

Freshwater $4 \mu g/l$ 100

Secondary poisoning 8.33 mg/kg 300 Oral

Sediment (marine water) 0.032 mg/kg Soil 0.062 mg/kg

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.

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.

Eve/face protection Use eye protection conforming to EN 166.

Skin protection

- Hand protection For accidental contact the use of disposable gloves should be sufficient provided they are changed

immediately after a splash or spill may occur. If intentional contact is expected reusable gloves should be used with a breakthrough time greater than the total duration of the product use. Nitrile

gloves are recommended.

- Other Wear suitable protective clothing.

Respiratory protection Not necessary in normal use. In case of insufficient ventilation, wear suitable respiratory

equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

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 Liquid.
Form Grease.
Colour Amber.

Odour Characteristic odor.

Odour threshold Not available.

pH Not applicable.

Melting point/freezing point Not available.

Initial boiling point and boiling

range

> 250 °C (> 482 °F)

Flash point > 200.0 °C (> 392.0 °F)

Evaporation rate Not applicable.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Vapour pressureNot available.Vapour densityNot available.

Relative density 0.93 g/cm3 at 20°C

Solubility(ies)

Solubility (water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidising properties

Insoluble in water

Not available.

Not available.

Not explosive.

Not oxidising.

9.2. Other information

Heat of combustion Not available.

VOC 0 g/l

SECTION 10: Stability and reactivity

10.1. ReactivityThe 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

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoidContact with incompatible materials.

10.5. Incompatible materials Peroxides. Phenols.10.6. Hazardous Carbon oxides.

decomposition products

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. Prolonged inhalation

may be harmful.

Eye contact Based on available data, the classification criteria are not met.

Skin contact May cause an allergic skin reaction.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Components Species Test Results

2,2,4-trimethyl-1H-quinoline (CAS 26780-96-1)

Acute Dermal

LD50 Rabbit > 5100 mg/kg

Oral

LD50 Rat 3190 mg/kg

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8)

Acute Dermal

LD50 Rabbit > 5000 mg/kg

Oral

LD50 Rat 3100 mg/kg

Skin corrosion/irritationBased on available data, the classification criteria are not met. **Serious eye damage/eye**Based on available data, the classification criteria are not met.

irritation

Respiratory sensitisationBased on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

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Specific target organ toxicity -

single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Mixture versus substance

information

Not available.

Other information

May cause allergic respiratory and skin reactions.

SECTION 12: Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the 12.1. Toxicity

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product Species **Test Results**

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Aquatic

Acute

EC50 Algae Algae > 100 mg/l, 72 hours Crustacea EC50 Daphnia > 100 mg/l, 48 hours Fish LC50 > 100 mg/l, 96 hours Fish

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

No data available. 12.3. Bioaccumulative potential

Partition coefficient

Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

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

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

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.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose in accordance with all applicable regulations. Special precautions

SECTION 14: Transport information

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 Not established.

MARPOL 73/78 and the IBC

Code

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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

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

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

Naphthenic acids, zinc salts (CAS 12001-85-3)

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8)

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 Naphthenic acids, zinc salts (CAS 12001-85-3)

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.

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

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

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. ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road. AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).

CAS: Chemical Abstract Service.

Ceiling: Short Term Exposure Limit Ceiling value.

CEN: European Committee for Standardization.

CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

GWP: Global Warming Potential.

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.

MAC: Maximum Allowed Concentration.

MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).

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

PBT: Persistent, bioaccumulative and toxic.

REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals). RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer). RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

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STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value. VOC: Volatile organic compounds.

vPvB: Very persistent and very bioaccumulative.

STEL: Short-term Exposure Limit.

Not available.

None.

Information on evaluation method leading to the classification of mixture

Full text of any H-statements

not written out in full under

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

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Revision information Training information

Sections 2 to 15

Disclaimer

References

Follow training instructions when handling this material.

CRC Industries Europe byba cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC.

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