

## SAFETY DATA SHEET

# CONSTRUCTION & OFF-HIGHWAY GREASE

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

1.1 Product identifier

Product name : CONSTRUCTION & OFF-HIGHWAY GREASE

Product code : GR219.

SDS no. : 1739

Product type : Solid.

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

Product use: Industrial/ : Industrial applications: Lubricants; grease.

**Professional use** 

1.3 Details of the supplier of the safety data sheet

The Timken Corporation 4500 Mt. Pleasant St. NW North Canton, OH 44720 U.S.A.

234.262.3000

#### 1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : INFOTRAC

U.S. and Canada - 800.535.5053

Outside the U.S. and Canada - +1 352.323.3500

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Ingredients of unknown: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

**ecotoxicity** aquatic environment: 2%

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R43

R52/53

**Human health hazards**: May cause sensitisation by skin contact.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Date of issue/Date of revision : 10/22/2015 1/13

CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no. : 1739

#### **SECTION 2: Hazards identification**

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms

Signal word : Warning

**Hazard statements** : Causes serious eye irritation.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Wear eye or face protection. Avoid release to the

environment.

Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Hazardous ingredients** : Sulfonic acids, petroleum, calcium salts

calcium dodecylbenzenesulphonate

N-1-naphthylaniline

Supplemental label

elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

**Special packaging requirements** 

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

## **SECTION 3: Composition/information on ingredients**

: Mixture

Substance/mixture

			<u>Classification</u>		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Sulfonic acids, petroleum, calcium salts	EC: 263-093-9	7-13	R43	Skin Sens. 1, H317	[1]
molybdenum disulphide	CAS: 61789-86-4 EC: 215-263-9 CAS: 1317-33-5	1-5	Not classified.	Not classified.	[2]
calcium	EC: 247-557-8	1-5	Xn; R22	Acute Tox. 4, H302	[1]

Date of issue/Date of revision : 10/22/2015 2/13

CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no. : 1739

## **SECTION 3: Composition/information on ingredients**

			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	
N-1-naphthylaniline	EC: 201-983-0 CAS: 90-30-2	0.1-1	Xn; R48/20/22 R43 N; R50/53	Acute Tox. 4, H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
diboron calcium tetraoxide	CAS: 26264-06-2 EC: 237-224-5 CAS: 13701-64-9	1-5	Xi; R41, R38 Xi; R36/38	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

#### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** 

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** 

: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

Date of issue/Date of revision : 10/22/2015 3/13

CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no. : 1739

#### **SECTION 4: First aid measures**

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides metal oxide/oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Date of issue/Date of revision : 10/22/2015 4/13

CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no.: 1739

#### SECTION 6: Accidental release measures

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **6.2 Environmental** precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### 6.3 Methods and material for containment and cleaning up

#### **Small spill**

: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

#### 6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### **Advice on general** occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination

#### 7.3 Specific end use(s)

Recommendations **Industrial sector specific** solutions

: Not available. : Not available.

Date of issue/Date of revision : 10/22/2015 5/13 CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no. : 1739

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
molybdenum disulphide	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 20 mg/m³, (as Mo) 15 minutes. TWA: 10 mg/m³, (as Mo) 8 hours.

## Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
Sulfonic acids, petroleum, calcium	DNEL	Long term	11.75 mg/	Workers	Systemic
salts		Inhalation	m³		
	DNEL	Long term	881.58 mg/	Workers	Systemic
	DATE	Inhalation	m³	347 1	
	DNEL	Long term Dermal	3.33 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	1000 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term Dermal	1.03 mg/ cm <sup>2</sup>	Workers	Local
	DNEL	Long term	2.9 mg/m <sup>3</sup>	Consumers	Systemic
		Inhalation			
	DNEL	Long term	434.78 mg/	Consumers	Systemic
	5	Inhalation	m³		
	DNEL	Long term Dermal	1.667 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Dermal	1000 mg/	Consumers	Systemic
			kg bw/day		
	DNEL	Long term Dermal	0.513 mg/ cm <sup>2</sup>	Consumers	Local
	DNEL	Long term Oral	0.8333 mg/ kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	500 mg/kg bw/day	Consumers	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
Sulfonic acids, petroleum, calcium salts	Fresh water	1 mg/l	-
·	Marine water	1 mg/l	-
	Sewage Treatment	1000 mg/l	-
	Plant		
	Fresh water sediment	226000000 mg/	-
		kg dwt	
	Marine water sediment	226000000 mg/	-
		kg dwt	
	Soil	271000000 mg/	-

Date of issue/Date of revision : 10/22/2015 6/13

CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no. : 1739

## **SECTION 8: Exposure controls/personal protection**

	Secondary Poisoning	kg dwt 16.667 mg/kg	-

#### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will 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. [grease]

Colour : Grey.

Odour : Mild. Petroleum oil
pH : Not applicable.

Melting point/freezing point : Not available.

Initial boiling point and boiling : Not available.

range

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Flammable in the presence of the following materials or conditions: open flames,

sparks and static discharge.

Date of issue/Date of revision : 10/22/2015 7/13

CONSTRUCTION & OFF-HIGHWAY GREASE **MSDS no.**: 1739

## SECTION 9: Physical and chemical properties

Upper/lower flammability or

explosive limits

Not available.

Vapour pressure : Not available. Vapour density : Not available. : 0.96 g/cm3 **Density** 

Solubility(ies) : Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/ : Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. : Not available. **Viscosity Explosive properties** : Not available. **Oxidising properties** : Not available.

#### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions

10.4 Conditions to avoid : No specific data. 10.5 Incompatible materials : No specific data.

10.6 Hazardous : Under normal conditions of storage and use, hazardous decomposition products

decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Sulfonic acids, petroleum, calcium salts	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral LD50 Dermal LD50 Oral	Rat Rabbit Rat	>5 g/kg >5000 mg/kg 1625 mg/kg	-

**Conclusion/Summary** : No known significant effects or critical hazards.

#### **Acute toxicity estimates**

Route	ATE value
Oral	25000 mg/kg

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
N-1-naphthylaniline	Skin - Mild irritant	Rabbit	-	1008 hours 5	-
				Percent	
				Intermittent	
	Skin - Mild irritant	Rabbit	-	50 Percent	-
	Skin - Mild irritant	Rabbit	-	4 hours 5	-
				Percent	

#### **Conclusion/Summary**

Skin : No known significant effects or critical hazards.

**Eyes** : Causes eye irritation.

Date of issue/Date of revision : 10/22/2015 8/13

CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no. : 1739

## **SECTION 11: Toxicological information**

**Respiratory**: No known significant effects or critical hazards.

**Sensitisation** 

Conclusion/Summary

Skin : May cause an allergic skin reaction.Respiratory : Sensitisation not suspected for humans.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself. Mutagenicity not suspected for

humans.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself. Carcinogenicity not suspected for

humans.

**Reproductive toxicity** 

**Conclusion/Summary**: There are no data available on the mixture itself. Not considered to be dangerous to

humans, according to our database.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself. Teratogenicity not suspected for

humans.

Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
N-1-naphthylaniline	Category 2	Not determined	Not determined

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Date of issue/Date of revision : 10/22/2015 9/13

CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no. : 1739

## SECTION 11: Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

**Conclusion/Summary**: No known significant effects or critical hazards.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Other information : Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

**Conclusion/Summary**: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

**Conclusion/Summary** 

: This product has not been tested for biodegradation. Not expected to be rapidly degradable. This product is not expected to bioaccumulate through food chains in the environment.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
CONSTRUCTION & OFF- HIGHWAY GREASE	-	-	Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
N-1-naphthylaniline	4.28	1424	high

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

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

**Packaging** 

Date of issue/Date of revision : 10/22/2015 10/13

CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no. : 1739

## **SECTION 13: Disposal considerations**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

: Not available.

## **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

2000 - 110

: Not applicable.

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

articles

Other EU regulations

**Europe inventory EINECS/ELINCS** 

: All components are listed or exempted.

Black List Chemicals

(76/464/EEC)

: Not listed

Priority List Chemicals

: Not listed

(793/93/EEC)

Date of issue/Date of revision : 10/22/2015 11/13

CONSTRUCTION & OFF-HIGHWAY GREASE **MSDS no.**: 1739

## **SECTION 15: Regulatory information**

Integrated pollution prevention and control

list (IPPC) - Air

Integrated pollution prevention and control list (IPPC) - Water

: Not listed

: Not listed

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### **International regulations**

International lists

Europe inventory EINECS/ELINCS: All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or

exempted.

Philippines inventory (PICCS): Not determined.

Taiwan inventory (CSNN): All components are listed or exempted.

United States inventory (TSCA 8b): All components are listed or exempted.

Canada inventory: All components are listed or exempted.

**Chemical Weapons** 

**Convention List Schedule I** 

Chemicals

: Not listed

**Chemical Weapons** 

**Convention List Schedule II** 

**Chemicals** 

: Not listed

**Chemical Weapons** 

**Convention List Schedule** 

**III Chemicals** 

: Not listed

15.2 Chemical Safety

**Assessment** 

This product contains substances for which Chemical Safety Assessments are still

required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent. Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
<b>)</b>	Calculation method	
Skin Sens. 1, H317	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

Date of issue/Date of revision : 10/22/2015 12/13 CONSTRUCTION & OFF-HIGHWAY GREASE MSDS no.: 1739

#### **SECTION 16: Other information**

Full text of abbreviated H

statements

: H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure. H373

Very toxic to aquatic life. H400

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

: Acute Tox. 4. H302 ACUTE TOXICITY (oral) - Category 4 **ACUTE AQUATIC HAZARD - Category 1** Aguatic Acute 1, H400

Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1 Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3

Eve Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

**STOT RE 2, H373** SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

Full text of abbreviated R phrases

: R22- Harmful if swallowed.

R48/20/22- Harmful: danger of serious damage to health in case of prolonged

exposure through inhalation and if swallowed.

R41- Risk of serious damage to eyes.

R38- Irritating to skin.

R36/38- Irritating to eyes and skin.

R43- May cause sensitisation by skin contact.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the

aguatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

13/13

aquatic environment.

**Full text of classifications** 

[DSD/DPD]

Xn - Harmful Xi - Irritant

N - Dangerous for the environment

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