

Dynapac Compaction Equipment Chernwatch: 5318-31 Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements

Issue Date: 06/08/2018 Print Date: 06/05/2019 L.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	Dynapac Auger Grease
Synonyms	Not Available
Other means of identification	Not Available

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

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Details of the supplier of the safety data sheet

Registered company name	Dynapac Compaction Equipment
Address	Box 504 Karlskrona SE-371 23 Sweden
Telephone	+46 455 30 60 00
Fax	+46 455 30 60 30
Website	http://www.dynapac.com
Email	info@dynapac.com

Emergency telephone number

Association / Organisation	Chemwatch	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	Not Available	+61 1800 951 288
Other emergency telephone numbers	Not Available	+61 2 9186 1132

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

CAS No	%[weight]	Name
Not Available	NotSpec.	polyalkylene glycol
Not Available	NotSpec.	additives

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with eyes: • Wash out immediately with water. • If irritation continues, seek medical attention. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. If failure/misuse of high pressure/hydraulic equipment results in injection of grease/oil through the skin seek urgent medical attention. Treat as surgical emergency.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ► Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.
 Do not use water jets.

Special hazards arising from the substrate or mixture

Fire Incompatibility	► Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
Advice for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material.
HAZCHEM	Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up. Place spilled material in clean, dry, sealed container. Flush spill area with water. Slippery when spilt.
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 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment. Prevent spillage from entering drains, sewers or water courses. Recover product wherever possible. Put residues in labelled containers for disposal. If contamination of drains or waterways occurs, advise emergency services. Slippery when spilt. 	
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Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling ► Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. ۲ Avoid contact with incompatible materials. ▶ When handling, DO NOT eat, drink or smoke. ÷. Keep containers securely sealed when not in use. Safe handling Avoid physical damage to containers. Always wash hands with soap and water after handling. ۰ Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Other information Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. ► Avoid reaction with oxidising agents

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (DEL)
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INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Dynapac Auger Grease	Not Available	Not Available	Not Available	Not Available
Ingredient	Original IDLH		Revised IDLH	
Dynapac Auger Grease	Not Available		Not Available	

MATERIAL DATA

Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineerinr highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a vent match the particular process and chemical or contaminant in use. Employeers may need to use multiple types of controls to prevent employee overexposure.	strategically "adds" and
Appropriate engineering controls	General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Corr	rect fit is essential to
	obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the v varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the	
	varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the	e contaminant.
	varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the Type of Contaminant:	e contaminant. Air Speed: 0.25-0.5 m/s (50-100

	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initi rapid air motion).	al velocity into zone of very high 2.5-10 m/s (500-2000 f/min.)
	Within each range the appropriate value depends on:	
	Lower end of the range	Upper end of the range
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high toxicity
	3: Intermittent, low production.	3: High production, heavy use
	4: Large hood or large air mass in motion	4: Small hood - local control only
Personal protection	reference to distance from the contaminating source. The air velocity at the extraction fan, for exertaction of solvents generated in a tank 2 meters distant from the extraction point. Other med within the extraction apparatus, make it essential that theoretical air velocities are multiplied by far or used.	nanical considerations, producing performance deficits
Eye and face protection	 Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrat of lenses or restrictions on use, should be created for each workplace or task. This should i class of chemicals in use and an account of injury experience. Medical and first-aid person should be readily available. In the event of chemical exposure, begin eye irrigation immediat should be removed at the first signs of eye redness or irritation - lens should be removed in a thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equin 	nclude a review of lens absorption and adsorption for the nel should be trained in their removal and suitable equipment rely and remove contact lens as soon as practicable. Lens a clean environment only after workers have washed hands
Skin protection	See Hand protection below	
Hands/feet protection	Wear general protective gloves, eg. light weight rubber gloves.	
Body protection	See Other protection below	
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Barrier cream. • Eyewash unit.	

Respiratory protection

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
 Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges
- Cartridge performance is affected by numbry. Cartridges should be changed affer 2 hr or continuous use unless it is determined that the numbry is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Off-white semi-solid with slight hydrocarbon; does not mix with water.		
Physical state	Non Slump Paste	Relative density (Water = 1)	1.0 @15C
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	>320
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	185 (drop pt.)	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	10	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1	Volatile Component (%vol)	Negligible
Vapour pressure (kPa)	<0.05 @20C	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	>1	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	The material is not thought to produce adverse health eff Nevertheless, good hygiene practice requires that exposu			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.			
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.			
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).			
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.			
	TOXICITY		IRRITATION	
Dynapac Auger Grease	Dermal (Rabbit) LD50: >5000 mg/kg* ^[2]		Not Available	
	Oral (Rat) LD50: >5000 mg/kg* ^[2]			
Legend:	1. Value obtained from Europe ECHA Registered Substa data extracted from RTECS - Register of Toxic Effect of c			rom manufacturer's SDS. Unless otherwise specified
Acute Toxicity	×		Carcinogenicity	×
Skin Irritation/Corrosion	×		Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - S	Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Rep	eated Exposure	×

SECTION 12 ECOLOGICAL INFORMATION

Mutagenicity

×

Toxicity

	ENDPOINT TEST DURATION (HR)	SPECIES	VALUE SOURCE
Dynapac Auger Grease	Not Available	Not Available	Not Not Available Available
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA F (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, E (Japan) - Bioconcentration Data 7. METI (Japan) - Biocon	Ecotox database - Aquatic Toxicity Data 5. ECETOC A	

Aspiration Hazard

Legend:

×

Data available to make classification

X – Data either not available or does not fill the criteria for classification

DO NOT discharge into sewer or waterways.

Persistence and degradability

No Data available for all ingredients No Data available for all ingredients	Ingredient	Persistence: Water/Soil	Persistence: Air
		No Data available for all ingredients	No Data available for all ingredients

Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods Product / Packaging disposal • Recycle wherever possible or consult manufacturer for recycling options. • Consult State Land Waste Authority for disposal. • Bury or incinerate residue at an approved site. • Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO Not Applicable
HAZCHEM	Not Applicable

Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 REGULATORY INFORMATION

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

National Inventory Status

National Inventory	Status
Australia - AICS	No (polyalkylene glycol; additives) Non-disclosed ingredients
Canada - DSL	No (polyalkylene glycol; additives) Non-disclosed ingredients
Canada - NDSL	No (polyalkylene glycol; additives) Non-disclosed ingredients
China - IECSC	No (polyalkylene glycol; additives) Non-disclosed ingredients
Europe - EINEC / ELINCS / NLP	No (polyalkylene glycol; additives) Non-disclosed ingredients
Japan - ENCS	No (polyalkylene glycol; additives) Non-disclosed ingredients
Korea - KECI	No (polyalkylene glycol; additives) Non-disclosed ingredients
New Zealand - NZIoC	No (polyalkylene glycol; additives) Non-disclosed ingredients
Philippines - PICCS	No (polyalkylene glycol; additives) Non-disclosed ingredients
USA - TSCA	No (polyalkylene glycol; additives) Non-disclosed ingredients
Taiwan - TCSI	No (polyalkylene glycol; additives) Non-disclosed ingredients
Mexico - INSQ	No (polyalkylene glycol; additives) Non-disclosed ingredients
Vietnam - NCI	No (polyalkylene glycol; additives) Non-disclosed ingredients
Russia - ARIPS	No (polyalkylene glycol; additives) Non-disclosed ingredients
Thailand - TECI	No (polyalkylene glycol; additives) Non-disclosed ingredients
Legend:	Yes = All declared ingredients are on the inventory No = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	06/08/2018
Initial Date	06/08/2018

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors

BCF: BioConcentration Factors BEI: Biological Exposure Index

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