

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



ML281 BNT High Temperature Grease

Version: 5
Revision date: 11/03/2021

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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: **ML281 BNT High Temperature Grease**
Product Code: **ML281**

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

Not available.

1.3 Details of the supplier of the safety data sheet.

Company: **A&S INTERNATIONAL LTD**
Address: The Old Brewery, 2 Brewery Court, High Street
City: Theale, Reading RG7 5AH
Province: Berkshire, United Kingdom
Telephone: +44 (0) 118 930 4321
E-mail: hello@aaands-international.com
Web: www.mak-lubes.org

1.4 Emergency telephone no: +30 210 7793777
(UK: during office hours; Monday-Friday; 08:00-17:00) Tel: +44 (0) 118 930 4321

SECTION 2: HAZARDS IDENTIFICATION.

The product is not classified according to GHS and EU Regulation 1272/2008 and its updates.

Classification Not Classified

Labelling

Hazard statements Not applicable

Precautionary statements Not applicable

Hazardous components which must be listed on the label:

Not Applicable

Other Hazards No information available

See Section 11 for more detailed information on symptoms and health effects.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

Substance/mixture

Ingredient Name	%	EC Nr / CAS Nr	Classification (EC1272/08)
Bentonite Clay	10 - 30	CASRN 63800-37-3	-
Mineral Oil	60 - 90	EC Nr 265-157-1 CASRN 64742-54-7	NOTE L
See Section 16 for full text of the above classification statements			

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 and hence require reporting in this section.

- (1) Substances classified with health and environmental hazards
- (2) Substance with a workplace exposure limit

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

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SECTION 4: FIRST AID MEASURES.

First Aid Measures

Inhalation	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, or if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Skin contact	Wash with soap and water. Remove contaminated clothing and wash before next use. In case of injury by high pressure jet of the product seek medical attention. In case of contact with hot product, cool immediately before following the above procedure.
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 if irritation occurs.
Protection of first-aiders	No action shall be taken involving personal risk or without suitable training.
Notes to physician	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5: FIREFIGHTING MEASURES.

Extinguishing media

Suitable	Use an extinguishing agent suitable for the surrounding fire.
Non suitable	Not Known.
Special Exposure hazards	In a fire or if heated a pressure increase will occur and the container may burst or melt. 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 personal risk or without suitable training.
Products of combustion	Carbon oxides (CO, CO ₂), nitrogen oxides (NO _x), smoke and irritating vapours as products of incomplete combustion.
Special protective equipment for fire-fighters	Fire-fighters must wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

Personal Precautions	No action shall be taken involving personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see section 8)
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).
<u>Cleaning up methods</u>	
Small spills	Stop leakage if without risk. Move containers from spill area. Collect spilt material with suitable means. The product is poorly absorbed onto soils or sediments. Recover by shovelling the grease from the ground. Dispose according to legislation. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor according to local legislation.
Large spills	Stop leakage if without risk. Move containers from spill area. Prevent entry into waterways or confined areas. Collect material with the use of a suction pump or other equipment. Wash effluent into an effluent treatment plant or process as follows. Contain and collect spillage with non combustible, absorbent material e.g. sand, earth, diatomaceous earth and place in a container for disposal in accordance with local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergence contact information and section 13 for waste disposal.

Refer to protective measures listed in Sections 7 and 8

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SECTION 7: HANDLING AND STORAGE.

Handling	Wear appropriate personal protective equipment (see section 8). 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.
Storage	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 foodstuff. 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.
<u>Packaging material</u> Recommended	Use original container.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

Exposure Limit Values

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
Mineral Oil	ACGIH TVL (United States). Notes: (Oil Mist) TWA: 5 mg/m ³ 8 hour(s) STEL: 10 mg/m ³ 15 minute(s)

Recommended monitoring procedure	If the 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidelines for methods for the determination of hazardous substances.
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Exposure Controls

Occupational Exposure Controls	Under normal operating conditions no exposure controls are expected to be required. No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust systems or other engineering controls to keep worker exposure below any recommended or statutory requirements.
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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. Wash contaminated clothes before reusing. Ensure that the eyewash stations and showers are close to the workstation locations.
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Respiratory Protection	Use a proper fitted air purifying or air-fed respirator complying with an approved standard if a risk assessment indicates it is necessary. Respirator selection must be based on known or expected exposure levels, the hazard of the product and the safe working limits of the selected respirator. Recommended: Organic vapour filter.
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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 that this is necessary. Recommended: Polyvinyl alcohol, nitrile- butyl-rubber gloves. The selected gloves should satisfy the specifications of EU directive 89/696/EEC and EN 374 standard.
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Eye Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates that this is necessary to avoid exposure to liquid splashes, mists and dusts.
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Skin 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.
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Environmental Exposure Controls	Emissions from ventilations or work process equipment should be checked to ensure that 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.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

General Information

Appearance	Grease, semi-solid
Colour	Brown
Odour	Light intrinsic odour

Important health, safety and environmental information

Flash Point	Open Cup : > 280 °C [Cleveland]
Ignition Temperature	No information available
Lower Explosion Limit	No information available
Upper Explosion Limit	No information available
Flammability (gas/solid)	No information available
Density	0,945 - 0,982 kg/L @ 20°C
Worked Penetration at 25 °C	220 - 340
pH	No information available
Relative Vapour Density	No information available
Vapour Pressure (kPa)	No information available
Evaporation Rate	No information available
Water Solubility at 20 °C	No information available
Partition coefficient: n-octanol/water	No information available
Solubility in other solvents	No information available

Other Information

Oxidising Potential	No information available
DMSO Extract, IP 346 %	< 3

The above information do not constitute a specification

SECTION 10: STABILITY AND REACTIVITY.

Chemical stability	The product is stable
Conditions to avoid	Reacts with strong oxidising agents and acids Exposure to moisture. Contamination.
Materials to avoid	Avoid contact with oxidising agents, reducing agents and acids.
Hazardous decomposition products	May release CO _x , NO _x , smoke and irritating vapours when heated to decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION.

Potential acute health effects

Inhalation	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Eye contact	No known significant effects or critical hazards.

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Acute toxicity

Mixture/ingredient Name	Result	Species	Dose	Exposure
N-1-naphthylaniline	LD50 Oral	Rat	1.625 mg/kg	-
	LD50 dermal	Rabbit	> 5000 mg/kg	-
Conclusion / summary	Not available.			

Potential chronic health effects

Chronic Toxicity

Conclusion / summary Not available.

Irritation/Corrosion

Conclusion / summary Not available.

Sensitiser

Conclusion / summary Not available

Carcinogenicity

Conclusion / summary Ames test
Result: Negative

Mutagenicity

Germ Cell Mutagenicity Chinese Hamster Ovary (CHO)
Conclusion / summary Result: Negative

Teratogenicity

Conclusion / summary Not available.

Reproductive Toxicity

Conclusion / summary No known significant effects or critical hazards.

Chronic effects

Carcinogenicity Not listed as carcinogenic by OSHA, NTP or IARC.
Mutagenicity No known significant effects or critical hazards.
Teratogenicity No known significant effects or critical hazards.
Development effects No known significant effects or critical hazards.
Fertility effects No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation No specific data.

Ingestion No specific data.

Skin No specific data.

Eyes No specific data.

SECTION 12: ECOLOGICAL INFORMATION.

Environmental Effects Not known significant effects or critical hazards.

Aquatic Toxicity

Toxicity to fish Result: No data available

Biodegradability

Conclusion/summary Result: No data available.

Biodegradability

Aerobic
Result: Not readily biodegradable 0%
Method: OECD Test guideline 301

Bioaccumulation

Conclusion/summary Result: No data available.

Mobility in soil

Conclusion/summary Result: No data available.

PBT and vPvB assessment

Conclusion/summary This mixture contains no substance considered to be persistent, bio accumulative nor toxic (PBT)

Other Adverse effects Not known significant effects or critical hazards.

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SECTION 13 DISPOSAL CONSIDERATIONS.

Methods of Disposal

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its containers must be disposed of in a safe way. Dispose of surplus and non recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste

With the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

SECTION 14: TRANSPORT INFORMATION.

International transport requirements

Regulatory Information	UN number	Proper shipping name	Classes	PG*	Label	Additional Information
ADR/RID Class	Not Available.	Not Available.	Not Available.	-		-
ADN/ADNR Class	Not Available.	Not Available.	Not Available.	-		-
IM DG Class	Not Available.		-	-		-
IATA Class	Not Available.		-	-		-

*Packaging group

SECTION 15: REGULATORY INFORMATION.

EU regulations

Classification and labelling have been determined according to EU Directives 61907/2006 and 1272/2008 (including amendments) and take into account the intended product use.

Risk Phrases

The product is classified according to GHS and EU legislation.

Other EU Regulations

Additional warning Phrases

Safety data sheet available for professional users on request

International Regulations

Canada Inventory

All components are listed or excepted.

US Inventory (TSCA 8b)

All components are listed or excepted.

Europe Inventory

All components are listed or excepted.

SECTION 16: OTHER INFORMATION.

R-Phrases full text

Not applicable

As referred to in sections 2 and 3 - Europe

H-Statements full text

As referred to in sections 2 and 3 - Europe Not applicable

Key data sources

Available upon request

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.