

**1. PRODUCT IDENTIFICATION**

Product Name: Whizard Quantum® High Performance Grease  
Identified Uses : Developed for use on equipment requiring extended performance  
Product Codes: #102609 – 13.5 oz. Cartridge #104098 – 8 oz. Tube  
#102612 – 35 lb. Pail #104133 – Case of (24) 8 oz. Tubes  
#103936 – Case of (10) 13.5 oz. Cartridges  
#103271 – Case of (30) 13.5 oz. Cartridges  
NSF #150331 H1  
Made in USA For: BETTCHER INDUSTRIES, INC.  
6801 State Route 60  
Birmingham, Ohio 44889 USA  
Customer Service: 1-440-965-4422 | 1-800-321-8763  
General E-mail: sales@bettcher.com | www.bettcher.com  
Emergency Phone # : 800-535-5053 Domestic (INFOTRAC)  
352-323-3500 International (INFOTRAC)

**2. HAZARDS IDENTIFICATION**

Emergency Overview: Not Expected To Produce Significant Adverse Health Effects When The Recommended Instructions For Use Are Followed. Keep container closed. Wash thoroughly after handling.

Classification of mixture according to US and EU Regulations (OSHA 1910.1200; EU 67/548/EEC, 1999/45/EC & (EC) 1272/2008): Not considered hazardous

OSHA Hazards: Not considered hazardous

GHS Label Elements (Regulations: US CFR 1910.1200 & EU (EC) No 1272/2008):

Signal Words: No signal word

Hazard statements: No known significant effects or critical hazards

Precautionary statements (EU Sec. 28, 1272/2008): None required

Risk phrases: None required

Safety phrases: S2 - Keep out of reach of children.

Label Elements/ Pictograms: None required.

Prevention: Keep out of the reach of children.

Response: Not applicable.

Storage: Not applicable.

Disposal: Not applicable.

Other hazards which do not results in classification: Not a PBT, vPvB substance as per the criteria of the REACH Ordinance.

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture  
 Chemical Characterization : Organic Lubricant

Hazardous Ingredients	%	CAS numbers	EC Numbers	Classification	
				67/548/EEC	(EC)1272/2008
1-Decene, homopolymer, hydrogenated	80 - 100%	68037-01-4	500-393-3	Not classified [1]	
Bentonite (clay)	5 - 10%	1302-78-9	215-108-5	Not classified	

[1] Substance with a workplace exposure limit. Occupational exposure limits, if available, are listed in Section 8. See Section 2 or 15 for the full text of the H & R-phrases declared above.

There are no additional ingredients present which are classified as hazardous and require reporting in this section, based on current laws & regulations. GHS & CLP classifications are based on all current available data, and are subject to revision as more information becomes available.

### 4. FIRST AID MEASURES

#### Description Of Necessary First Aid Measures :

- General Advice:** Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.
- Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes, including under eyelids, with plenty of water for at least 15 minutes. Get medical attention if irritation or visual difficulty occurs.
- Skin Contact:** Remove contaminated clothing and shoes. Wash exposed area with soap and water. Wash contaminated clothing and shoes before re-use. If symptoms persist, seek medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Ingestion:** Wash out mouth with water. 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. Seek medical advice immediately and show this SDS or label. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

#### Overview Of Most Important Symptoms/Effects, Acute And Delayed

Ingestion may cause abdominal pain, nausea, vomiting, diarrhea.

#### Potential Acute Health Effects

Eye Contact: No known significant effects or critical hazards.

Skin Contact: Prolonged or repeated contact can defat the skin and lead to irritation, cracking, and/or dermatitis.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious health effects may be delayed following exposure.

Ingestion: No known significant effects or critical hazards.

Over-Exposure Signs/Symptoms:

Eye Contact: No specific data.

Skin Contact: No specific data.

Inhalation: No specific data.

Ingestion: Adverse symptoms may include nausea or vomiting.

Indication Of Immediate Medical Attention And Special Treatment Needed, If Necessary

Specific treatments: No specific treatments

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need medical surveillance for 48 hours.

Protection of first responders: No action shall be taken involving any personal risk or without suitable training.

**5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media : Large fires: Use dry chemical, foam, alcohol-resistant foam or water mist (fog).  
Small fires: Use carbon dioxide (CO<sub>2</sub>), dry chemical or water mist. Water can be used to cool fire-exposed containers.

Unsuitable Extinguishing Media : Do not use water jet, which may spread fire.

Hazards During Fire Fighting: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>), aldehydes, nitrogen oxides, sulfur oxides.

Flammability of the Product: In a fire or if heated, a pressure increase may occur in closed containers, causing the containers to burst.

Special Precautions For Fire-Fighters: Promptly evacuate and isolate the area according to your local emergency plan. Use water spray to keep fire-exposed containers

**SAFETY DATA SHEET**  
**WHIZARD QUANTUM® HIGH PERFORMANCE GREASE**

cool, taking care to keep used fire-water away from waterways, sewers, and drains.

**Special Protective Equipment For Fire-Fighters:** Fire fighters should wear appropriate protective equipment and self-contained respirator (SCBA) with 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.

**Further Information:** Non-explosive in the presence of open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials. This material is not explosive as defined by established regulatory criteria. May be combustible at high temperature.

**6. ACCIDENTAL RELEASE MEASURES**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 away. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For Emergency Responders:** If specialized 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".

**Environmental Precautions:** If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material (e.g. sand, earth or other suitable material) and place in a suitable container for disposal. Avoid contact of spilled material with soil. Do not contaminate water. Do not flush into surface water or sanitary sewer system. Prevent runoff from entering surface waterways. Inform authorities if the product has caused environmental pollution.

Methods And Materials For Containment And Cleaning Up:

**Small Spill:** Stop leakage or spillage if safe to do so. Move containers from spill area. Absorb with inert dry material or absorbent (e.g. sand, earth, diatomaceous earth, vermiculite), scoop up, and place in a sealable, liquid-proof container for disposal. Dispose of via a licensed waste disposal contractor.

**Large Spill:** Stop leakage or spillage if safe to do so. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Use

**SAFETY DATA SHEET**  
**WHIZARD QUANTUM® HIGH PERFORMANCE GREASE**

appropriate absorbent materials (e.g. sand, earth, vermiculite, etc.) to absorb material if necessary. Move spilled material in an appropriate container for disposal. See Section 13 for waste disposal information. Contaminated absorbent material may pose the same hazard as the spilled product. Dispose of via a licensed waste disposal contractor.

**Other Information:**

Caution - May form slippery/greasy layer with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Comply with all applicable federal, state, and local regulations for containment and disposal.

Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

**7. HANDLING AND STORAGE**

The information in this section contains generic advice and guidance. Specific situations may require additional actions.

Handling Recommendations

**Protective Measures:** Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed in a dry, well-ventilated place when not in use. Use appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin, and clothing. Avoid release to the environment. Wash thoroughly after handling.

**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 area. See also Section 8 for additional information on hygiene measures.

Storage Recommendations

**Conditions For Safe Storage, Including Incompatibilities:** Store in accordance with local regulations. Keep container away from direct sunlight or ignition sources in a cool, well-ventilated area. No smoking in area. Take measures to prevent the build-up of electrostatic charge. Keep away from incompatible materials (see Section 10) and food and drink. Keep containers tightly closed in a dry, well-ventilated place when not in use. Use appropriate containment to avoid environmental contamination. Empty containers may contain harmful, flammable combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

**Storage Temperature:** Storage temperature: Minimum 0 °C, Maximum 40 °C. Stable under recommended storage conditions.

**Specific Uses:** Lubricating grease. Refer to technical data sheet available on request

<b>8. EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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The information in this section contains generic advice and guidance. Specific situations may require additional actions.

Control Parameters:

Occupational Exposure Limit Values:

Ingredient Name	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL TWA	NIOSH REL TWA	EH40 (UK) TWA	Comments
1-decene, homopolymer, hydrogenated	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>				

Recommended Monitoring Procedures:

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 need to use respiratory protective equipment. In Europe, reference should be made to appropriate European Standards (for example: EN 689, EN 14042, EN 482, etc.) for methods to assess inhalation exposure to chemical and biological agents. Reference to national guidance documents for methods for the determination of hazardous substances is also recommended.

Environmental Exposure Controls:

Should not be released into the environment. Do not contaminate water, or flush into surface water or sanitary sewer system. 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. Refer to Section 6 and 12 for more information.

Engineering Controls:

Provide exhaust ventilation and other engineering controls necessary to keep the airborne concentrations of chemical vapors, fumes, and dust below their respective occupational exposure limits.

Personal Protection Measures:

Hygiene Measures :

Avoid contact with skin, eyes, and clothing. 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory Protection :

If risk assessment shows air-purifying respirators are needed, use a properly fitted full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as

a back-up to engineering controls. If the respirator is the sole means of protection, use a full-face supplied-air respirator. Use respirators and components tested and approved under appropriate government standards, such as those from NIOSH (US) or CEN (EU).

**Hand Protection :**

Recommendations: Nitrile gloves, thickness > 0.4 mm, breakthrough time > 30 min. Handle with gloves. Inspect gloves prior to use and use correct glove removal technique. Dispose of contaminated gloves properly. Wash & dry hands after contact. Additional protection may be necessary if this material is mixed with other chemicals or at high temperatures.

**Eye/Face Protection :**

Recommendations: Face shield or safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as those from NIOSH (US) or EN 166(EU).

**Skin Protection :**

Recommendations: 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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Tan grease
Physical State:	Semi-solid
Odor:	Undetectable odor.
pH:	Not determined.
Vapor Density:	>1 (air =1)
Vapor Pressure:	< 0.017 kPa (< 0.13 mm Hg) at 20°C (68°F)
Melting (Dropping) Point:	274°F (526°F)
Specific Gravity:	0.79 - 0.82 g/MI
Solubility in Water:	Slight.
Solubility in other solvents:	Separates in mineral oils, stoddard solvents, and acetone.
Octanol / H2O coefficient:	Not determined.
Flash Point (closed cup):	> 238°C (> 460°F)
Lower / Upper Flammability Limit:	Not determined.
Lower / Upper Explosion Limit:	Not determined.
Auto ignition:	> 400 °C (752 °F)
Burning Rate:	Not determined.
Volatile Organic Content:	Not determined.
Evaporation Rate:	0.04 (n-Butyl Acetate = 1)

**10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reactions known under conditions of normal use.

Stability : The product is stable under recommended storage conditions.

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

Conditions To Avoid : Keep away from heat and direct sunlight.

Materials To Avoid : Strong oxidizing agents.

Hazardous Decomposition Products : Combustion conditions: Carbon oxides (CO, CO<sub>2</sub>), aldehydes, nitrogen oxides, sulfur oxides.

**11. TOXICOLOGICAL INFORMATION**
Information On The Likely Routes Of Exposure:

Likely Exposure Routes: Oral, dermal, inhalation.

Inhalation: Inhalation of mist or vapors at elevated temperatures may cause respiratory irritation.

Ingestion: No known significant effects or critical hazards.

Skin Contact: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Eye Contact: May cause eye irritation.

Signs And Symptoms Of Exposure: Abdominal pain, nausea, vomiting.

Acute Toxicity:

Inhalation: Inhalation of mist or vapors at elevated temperatures may cause respiratory irritation.

Ingestion: No known significant effects or critical hazards.

Skin Contact: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Eye Contact: May cause eye irritation.

Product/Ingredient Name	Test / Result	Species	Dose	Exposure / Conclusions
1-decene, homopolymer, hydrogenated	LD50 Oral	Rat	>5000 mg/kg	---
Bentonite (clay)	LC50 Inhalation	Rat	> 12.6 mg/L	4 hr.



	LD50 Oral	Rat	>8000 mg/kg	----
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Potential Chronic Health Effects :

Chronic Toxicity: No known significant effects or critical hazards.

Corrosivity: No information available.

Sensitization: No sensitizing effects known.

Carcinogenicity: Not carcinogenic, according to established ACGIH, IARC, NTP, OSHA & EU regulatory criteria.

Mutagenicity: Not mutagenic, according to established regulatory criteria.

Teratogenicity: Not teratogenic or embryo toxic, according to established regulatory criteria.

Reproductive Toxicity: Not a reproductive toxin, according to established regulatory criteria.

Developmental Effects: No known significant effects or critical hazards.

Fertility Effects: No known significant effects or critical hazards.

Specific Target Single exposure: Not available

Organ Toxicity : Repeated Exposure: Not available

Toxic kinetics, Metabolism And Distribution: No specific information is available.

Other Health Hazard Information: Handle with care.

Based on product test data from this and similar products.

## 12. ECOLOGICAL INFORMATION

**Aquatic Eco toxicity Effects**

Product/Ingredient Name	Result	Species	Exposure
1-decene, homopolymer, hydrogenated	EC50 >1000 mg/L WAF	Daphnia	48 hours
	EC50 >= 1000 mg/L WAF	Micro-organism	3 hours
	LC50 > 1000 mg/L	Fish	96 hours
	NOEC 1000 mg/L WAF	Aquatic plants	72 hours
	NOEC 180 mg/m <sup>3</sup>	Crustaceans	28 days
	NOEC 125 mg/L WAF	Daphnia	21 days

Persistence And Degradability: Not readily degradable.

Bioaccumulative Potential: No data available on mixture. See component data below.

Product/Ingredient Name	Log (P <sub>ow</sub> )	BCF	Potential
1-decene, homopolymer,	-	>10	Low

hydrogenated			
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**Mobility In Soil**

Soil/Water Partition Coefficient (KOC): Not available

Mobility: This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility. This product is not likely to volatilize rapidly into the air because of its low vapor pressure.

Results of PBT and vPvB assessment: No data available.

Germany water class (WGK): Class 1 - Slightly hazardous to water (German VwVwS legislation, May 1999)

Other Adverse Effects: Do not allow product to reach ground water, watercourse or sewage system

Effect On Sewage Processing Plants: Small amounts of product do not cause disturbances in water purification plants, based on current experience.

**13. DISPOSAL CONSIDERATIONS**

The information in this section contains generic advice and guidance. Specific situations may require additional actions.

Product Disposal: Burn in a chemical incinerator. Avoid contact of spilled material with soil. Prevent runoff entering surface waterways. Consult an environmental professional to determine appropriate regulations. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

Packaging Disposal: Do not burn or use a cutting torch on empty container. Dispose of container in a safe way.

Hazardous Waste: Disposal should be in accordance with applicable local, regional, and national laws and regulations.

Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

**14. TRANSPORT INFORMATION**

International Transport Regulations : Not classified as hazardous for transport (UN, TDG, IMDG, IATA)

**15. REGULATORY INFORMATION**

Safety, Health And Environmental Regulations / legislation specific for the substance or mixture

HCS Classification: Not regulated

**North American Regulations:**

OSHA Hazards: None listed.

United States Inventory (TSCA 8b): All ingredients listed, exempt or notified.  
Clean Water Act (CWA) 307 / 311 : No components were found.  
CERCLA Hazardous substances: No components were found.

Clean Air Act (CAA) 112

Accidental Release Prevention: No components were found.  
Regulated Flammable Substances: No components were found.  
Regulated Toxic Substances: No components were found.  
Hazardous Air Pollutants (HAPs): Not listed.

SARA 302/304/311/312

302 Extremely hazardous substances: None  
311 / 312 Emergency Planning And Notification: Fire Hazard, Sudden Release of Pressure Hazard,  
Chronic Health Hazard  
Hazardous Chemicals: None

US State Regulations:

California Proposition 65 Components	Does not contain chemicals known by the state of California to cause cancer, birth defects, or reproductive harm.
California Hazardous Substances	None of the components are listed.
Connecticut Carcinogen Reporting	None of the components are listed.
Connecticut Hazardous Material Survey	None of the components are listed.
Florida substances	None of the components are listed.
Illinois Chemical Safety Act	None of the components are listed.
Illinois Toxic Substances Disclosure Act	None of the components are listed.
Louisiana Reporting	None of the components are listed.
Louisiana Spill	None of the components are listed.
Massachusetts Spill	None of the components are listed.
Massachusetts Right-to-Know Substances	None of the components are listed.
Michigan Critical Material	None of the components are listed.
Minnesota Hazardous Substances	None of the components are listed.
New Jersey Hazardous Substances	None of the components are listed.
New Jersey Spill	None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act	None of the components are listed.
New York Acutely Hazardous Substances	None of the components are listed.
New York Toxic Chemical Release Reporting	None of the components are listed.
Pennsylvania RTK Hazardous Substances	None of the components are listed.
Rhode Island Hazardous Substances	None of the components are listed.

Canadian Regulations:

WHMIS IDL (Hazardous Disclosure List) No components on list.

EU Regulations:

EU Directives 67/548/EEC & 1999/45/EC including amendments, taking into account intended product use.

## SAFETY DATA SHEET

### WHIZARD QUANTUM® HIGH PERFORMANCE GREASE

Classification:	Non-hazardous.
Hazard statements:	None listed.
Precautionary statements:	
Risk phrases:	None
Safety phrases:	S2 - Keep out of reach of children.
Pictograms:	None
REACH SVHC List, (EC) 1907/2006:	This product does not contain REACH Substances of Very High Concern (16 Dec 2013 SVHC list)
Major Accident Hazard Legislation:	Directive 96/82/EC Update: 2003 does not apply.
Water Contaminating Class (Germany):	WKG Class 1 Slightly hazardous to water (German VwVwS legislation, May1999)
<u>International Regulations:</u>	
Australia Inventory (AICS):	All ingredients listed, exempt or notified.
Canada Inventory (DSL/NDSL):	All ingredients listed, exempt or notified.
China Inventory (IECSC):	All ingredients listed or exempt.
European Inventory (EINECS):	All ingredients listed, exempt or notified (ELINCS).
Korea Inventory (KECI):	All ingredients listed, exempt or notified.
Japan Inventory (ENCS/ISHL):	All ingredients listed, exempt or notified.
New Zealand Inventory (NZIoC):	All ingredients listed, exempt or notified.
Philippines Inventory (PICCS):	All ingredients listed, exempt or notified.
United States Inventory (TSCA 8b):	All ingredients listed, exempt or notified.
Chemical Safety Assessment:	This product does NOT contain substances for which Chemical Safety Assessments are required.

<b>16. OTHER INFORMATION</b>
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Hazardous Material Information System: HMIS (USA):	Health	0
	Flammability	1
	Physical Hazards	0
	Personal Protection	B
National Fire Protection Association (U.S.A.) NFPA (USA):	Health	0
	Flammability	1
	Instability	0
	Special	B

The information provided in this Safety Data Sheet is correct to the best of Bettcher Industries Inc. knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific product designated and may not be valid for such product when used in combination with any other material or in any process, unless specified in this SDS. Bettcher Industries Inc. specifically disclaims any liability for any loss, injury or damage which may result from use or misuse of this product.

All chemicals should be handled only by competent personnel, within a controlled environment. It is the buyer's/user's responsibility to ensure that his activities comply with all applicable federal, state, provincial and local laws, and to determine the conditions necessary for the safe use



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Birmingham, Ohio 44889

**SAFETY DATA SHEET**  
**WHIZARD QUANTUM® HIGH PERFORMANCE GREASE**

of this product. Aerospace Lubricants, Inc. urges each customer or recipient of this SDS to study it carefully and consult appropriate experts to become aware of and understand the data contained in this SDS and any hazards associated with the product.

Source of information: Internal data and publically available information