

Safety Data Sheet

Grease Away Plus+

SECTION I - IDENTIFICATION

PRODUCT NAME: GREASE AWAY PLUS+
PRODUCT CODE: 2026
PRODUCT USE: Solvent cleaner
COMPANY NAME: BETA TECHNOLOGY, INC.
COMPANY ADDRESS: PO Box 218686, Houston, TX 77218
COMPANY PHONE: 281-647-9700
EMERGENCY PHONE: 800-535-5053 INFOTRAC

SECTION II – HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS: 2.6 – Flammable Liquid, 3

3.10 – Aspiration Hazard, 1

3.2 – Skin Irritant, 2

3.4 S – Skin Sensitivity, 1

4.1 C – Aquatic Chron., 1

HAZARD STATEMENT(S): DANGER: Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

This product contains the following percentage of chemicals of unknown toxicity: 0%

PRECAUTIONARY STATEMENTS: Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Avoid release into the environment. Wear protective gloves and use eye protection. **IF SWALLOWED:** Immediately call a POISON CENTER, doctor or physician. **IF ON SKIN:** Wash with plenty of soap and water. Do NOT induce vomiting. If skin irritation occurs: Seek medical advice. Dispose of contents and their containers in accordance with regional, national, and international regulations. Contact with eyes may cause redness or irritation.



SYMBOL:

HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Hydrocarbons, terpene processing by-products	68956-56-9	100%
D,1-Limonene is a primary component of Hydrocarbons, terpene processing by-products in Limonene X		

SECTION IV - FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES.

GENERAL INFORMATION: As with any chemical, employees should thoroughly wash hands with soap and water after handling this material. If health disorder happens, call for medical help immediately. Immediately remove any clothing soiled by the product.

EYE CONTACT: Remove any contact lenses at once. Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

SKIN CONTACT: Wash affected area with copious amounts of soap and water. If irritation develops, seek medical attention.

INHALATION: If symptoms of overexposure are experienced, move to fresh air.

INGESTION: Seek medical attention immediately. DO NOT induce vomiting. Rinse mouth with water. DO NOT offer water or anything to drink that might cause vomiting. DO NOT administer anything by mouth to an unconscious person. DO NOT leave victim unattended.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: Skin irritation and skin sensitization. The product may be fatal if swallowed and enters airways. Inhalation may cause irritation of the nose, throat and respiratory tract.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam or dry chemical. Caution: Carbon dioxide will displace air in confined spaces and may create an oxygen deficient atmosphere.

UNSUITABLE EXTINGUISHING MEDIA: Water

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SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus nad full fire-fighting turnout gear. Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: Do not use water with full jet to prevent fire spreading. In case of fire, the following can be released: Carbon monoxide (CO), carbon dioxide (O2), smoke, soot.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Use personal protection recommended in Section VIII. Product is slippery when spilled. Isolate the hazard area. Deny entry to unnecessary and unprotected personnel.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage. Keep away from drains, surface- and ground-water and soil. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers, surface or ground water.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Dike spill area and cap leaking containers as necessary to prevent further spreading of spilled material. Absorb spilled liquid with suitable material such as dirt or sand. Eliminate all ignition sources. Use equipment rated for use around combustible materials. Place in appropriate disposal container.

SECTION VII – HANDLING AND STORAGE

HANDLING PRECAUTIONS: Use personal protection equipment as mentioned in Section VIII. Keep away from heat, sparks and flame. Protect against electrostatic charges. Open container slowly to release pressure caused by temperature variations. Use in well-ventilated areas. Do not breathe vapors. Product should be filtered or strained before blending or repackaging.

STORAGE REQUIREMENTS: Product may be packaged in phenolic-lined steel containers or fluorinated plastic containers. Store in a well ventilated area with proper sprinkler/fire deterrent system. Storage temperature should not exceed the flash point for extended periods of time. Store away from oxidizing agents. Keep container closed when not in use. Air should be excluded from partially filled containers by displacing with nitrogen or carbon dioxide. Do not cut, drill, grind or weld on or near this container; residual vapors may ignite.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	AGW (Germany) 110mg/m ³	AIHA Standard: 8h TWA
p-mentha-1,8-diene	20 ppm	30 ppm

ENGINEERING CONTROLS: Normal room ventilation is usually adequate. Provide exhaust ventilation or other engineering controls to keep the airborne concentration below any regulated limits. Keep away from sparks and flames.

PERSONAL PROTECTIVE EQUIPMENT: GENERAL PROTECTIVE AND HYGIENIC MEASURES - Use personal protective equipment depending on concentration and amount of hazardous substance. Keep away from foodstuffs, beverages and feed. Immediately removed all soiled and contaminated clothing. Wash hands before breaks and at the end of the work. **EYE/FACE PROTECTION** – Tightly sealed goggles according to EN 166. **SKIN PROTECTION** – Preventive skin protection by use of skin-protection agents is recommended. Use protective gloves. For permanent contact gloves should be made of Nitrile rubber. As protection against splashes PVC gloves are suitable. **RESPIRATORY PROTECTION** – Suitable respiratory protection: Filter class A2 (brown color). Use the rules for application of respiratory protection systems.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear Liquid, colorless to pale yellow

ODOR: Pine

BOILING POINT: 176°C (348.8°F)

FREEZING/MELTING POINT: -96°C (-141°F)

FLAMMABLE LIMITS: 0.7% LEL; 6.1% UEL

FLASH POINT (CLOSED CUP): > 43°C (>110°F)

AUTOIGNITION TEMPERATURE: 237°C (459°F)

VAPOR PRESSURE: < 2 mm Hg at 20°C (68°F)

VAPOR DENSITY: N/D

EVAPORATION RATE: 0.2 (BuAc=1)

SPECIFIC GRAVITY/DENSITY: 0.850 – 0.870 at 25°C (77°F)

pH: N/A

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SOLUBILITY: Immiscible

PARTITION COEFFICIENT: $K_{ow}=4.23$ (for d-limonene)

DECOMPOSITION TEMPERATURE: N/D

VISCOSITY: 0.923 cP at 25°C (77°F)

SECTION X – STABILITY AND REACTIVITY DATA

REACTIVITY: Minimal Hazard

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Keep away from heat, sparks and flames.

MATERIALS TO AVOID: Strong oxidizing agents and strong acids, including acidic clays, peroxides, halogens, vinyl chloride, and iodine pentafluoride.

HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of limonene, which can result from improper storage and handling, are known to cause skin sensitization. No decomposition if stored properly.

POSSIBLE HAZARDOUS REACTIONS: Avoid long-term exposure to air. If storing partially-filled containers, fill headspace with an inert gas such as nitrogen or carbon dioxide.

SECTION XI – TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE EFFECTS: Limonene has been shown to have low oral toxicity ($LD_{50}>5$ g/kg) when tested on rats and low dermal toxicity ($LD_{50}>5$ g/kg) when tested on rabbits. The product may be fatal if swallowed and enters airways. An LC_{50} is not established. Inhalation may cause irritation of the nose, throat, and respiratory tract. The product is a skin irritant. The product may cause sensitization by skin contact.

CHRONIC EFFECTS: This product is not classified for repeated dose toxicity. This product is not classified as a carcinogen by IARC or U.S. ACGIH, NTP or OSHA. This product has not been shown to produce genetic changes when tested on bacterial or animal cells. This product does not contain known reproductive or developmental toxins.

SECTION XII – ECOLOGICAL INFORMATION

TOXICITY:

This product may be very toxic to aquatic life. However, due to the physical properties of the product (density and volatility) it will not remain in the environment for an extended period of time.

BIOACCUMULATION: This product is not considered bioaccumulative.

PERSISTENCE AND DEGRADABILITY: This product is readily biodegradable.

SOIL MOBILITY: Pine extractives volatilize rapidly. Pine extractives are expected to volatilize from soil or water to the air and oxidize to carbon dioxide in the presence of sunlight.

OTHER ADVERSE EFFECTS: None.

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS: Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

RECOMMENDATION: Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Packaging that may not be cleansed is disposed of in the same manner as the product. Moistened solids (e.g. cloth, pulp, filter panels, binger) can be burnt after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

SECTION XIV - TRANSPORTATION INFORMATION

UN NUMBER:

US DOT/ADR/RID: UN2319 (primary), UN1993 (alternate)

IMDG: UN 2319 (primary), UN1993 (alternate)

IATA/ICAO: UN2319 (primary), UN1993 (alternate)

UN PROPER SHIPPING NAME:

US DOT/ADR/RID, IMDG, IATA/ICAO

UN2319 – Terpene Hydrocarbons, N.O.S.

UN1993 – Flammable Liquid, N.O.S. (dipentene)

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TRANSPORT CLASS: 3

Label: 3 Flammable Liquid, Symbol fish and tree

Label/Placard: exception §173.150(f) applies (US DOT only)

PACKING GROUP: III

ENVIRONMENTAL HAZARDS: Marine Pollutant

SPECIAL PRECAUTIONS FOR USER: None listed

EMS NUMBER: F-E, S-E

SECTION XV - REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE: The Safety Data Sheet complies with the requirements of Regulation (ED) No 1907/2006.

CHEMICAL SAFETY ASSESSMENT: A Chemical Safety Assessment has not been carried out.

General information : If health disorder happens, call for medical help immediately. Immediately remove any clothing soiled by the product.

After inhalation : Supply fresh air and be sure to call for a doctor. In case of unconsciousness, place patient stably in side position for transportation.

After skin contact : Immediately wash with water and soap and rinse thoroughly.

After eye contact : Rinse opened eye for several minutes under running water.

After swallowing : Do not induce vomiting; call for medical help immediately.

SECTION XVI - ADDITIONAL INFORMATION

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