MATERIAL SAFETY DATA SHEET

ENGINE AID

MSDS# 0583 **REVISION DATE:** 12/18/2022

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

1.1. PRODUCT IDENTIFIER

- **Product Form:**
  Mixture, Liquid
- **Product Name:**
  ENGINE AID
- **Product Code:**
  0583
- **Product Description:**
  Water Base Cleaning and Degreasing Foam (HS-CODE 3402499000)

1.2. RECOMMENDED USE AND RESTRICTIONS ON USE

- **Recommended Use:**
  - Automotive, Dry Cleaning and Restoring Cars Engine Surfaces Like Brand New.
    This product is specially formulated to clean a variety of surfaces, including wheels, tires, inner plastic parts, and even remove stubborn tape residue.
    Removing of PDI Wax from car surfaces.
- **Uses Advised Against:**
  Not Available - Use only as stated

1.3. DETAILS OF THE PRODUCT'S IMPORTER OF THE PRODUCT AND MSDA

This product was made according to specific specifications, especially and exclusively for the importer.

- **Importer Name:**
  Chemical Technology LLC - Trade Mark Owner (Mr. AID)
- **Importer Address:**
  335 George St, Ste 4, New Brunswick, NJ 08901, USA
- **Importer Tel.:**
  1-844-390-3031
- **Importer E-Mail:**
  info@techemraid.com

2. HAZARDS IDENTIFICATION:

This product is a consumer product and is labeled in accordance with the regulations of the US Consumer Product Safety Commission, which takes precedence over OSHA Hazard Communication labeling. The actual container label may be different and will not include the label elements below for labels regulated by other agencies. The labeling below applies to industrial/professional products.

2.1. CLASSIFICATION OF THE MIXTURE

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

- **Physical hazards**
  Not Classified
- **Health hazards**

Eye Irritant	Category 2A
Skin corrosion/irritation	Category 2

2.2. LABEL ELEMENTS

- **Signal word:**
  WARNING
- **Pictograms**:
  GHS07

- **Symbols:**
  Exclamation Mark |
- **Hazard statement(s):**
  H315 - Causes skin irritation.
  H319 - Causes serious eye irritation.
- **Precautionary statement(s):**

  Prevention:
  P280 - Wear protective gloves, protective clothing, eye protection, and face protection.

  Response:
  P301 + P310 - If swallowed, immediately call a poison center or doctor/physician.
  P302 + P352 - If on skin: Wash with plenty of soap and water.
  P303+P361+P353 - If on skin (or hair): Remove/take off all contaminated clothing immediately. Rinse the skin with water or shower.
  P305 + P351 + P338 - If in eyes: Rinse carefully with water for several minutes. Remove contact lenses, if they are present and easy to remove. Keep rinsing.
  P331 - Do NOT induce vomiting.
  P337 + P313 - If eye irritation persists, get medical advice or attention.
  P362 - Remove contaminated clothing and wash before reusing.
  P391 - Collect spillage.

  Storage:
  P403 - Store in a well-ventilated place.
  P405 - Store locked up.
  P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 60°C/140°F.

  Disposal:
  P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Hazard(s) not otherwise classified (HNOC)**
  Not Applicable
- **Notes to Physician:**
  - Do not administer sympathomimetic drugs unless necessary.
- **Supplemental Information:**
  None known.

2.3. Other assigned/identified product hazards

- **NFPA 704 Hazard Classification:**

Health: 1 **Flammability:** 0 **Instability:** 0 **Special Hazards:** None

NFPA 704 Hazard Rating:
4- *EXTREME*
3- *HIGH*
2- *MODERATE*
1- *SLIGHT*
0- *INSIGNIFICANT*

NFPA = National Fire Protection Association

- **HMIS III Hazard Classification:**

Health: 1 **Flammability:** 0 **Reactivity:** 0 **Personal Protection:** B

HMIS III Hazard Rating:
4*-SEVERE*
3-*SERIOUS*
1-*MODERATE*
1-*SLIGHT*
0-*MINIMAL*

HMIS = Hazardous Material Information System

2.4. Other hazards which do not result in classification

This product does not contain any substances classified as PBT or vPvB.

3. COMPOSITIONS AND INGREDIENTS:

3.1. SUBSTANCES

Not applicabl

3.2. MIXTURES

Component Name	CAS Number	Concentration (%)
Ethoxylated Alcohol	68131-39-5	5-15%*
White Spirit (Stoddard)	8052-41-3	15-25%*
Ethylene Glycol Monobutyl Ether	111-76-2	5-15%*
Water	7732-18-5	25-40%*

* The specific chemical identity and/or exact percentage (concentration) of this composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

4. FIRST–AID MEASURES:

4.1. DESCRIPTION OF FIRST AID MEASURES

- **Inhalation**
  - Move to fresh air and remain at rest in a comfortable position to facilitate breathing.
  - If breathing is difficult, administer oxygen.
  - If irritation persists, seek medical attention.
  - Other measures are usually unnecessary.

- **Skin Contact**
  - Wash off immediately with soap and plenty of water.
  - Take off contaminated clothes and launder them before reusing.
  - If necessary, cover the irritated skin with an emollient.
  - If irritation persists, seek medical attention.
- **Eye Contact**
  - Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes.
  - Remove contact lenses and continue rinsing.
  - If irritation persists, seek medical attention.
- **Ingestion**
  - Rinse the mouth with water.
  - Dilute by giving 1 or 2 glasses of milk or water.
  - Never give anything by mouth to an unconscious person.
  - Do not induce vomiting.
  - If irritation persists, seek medical attention.
- **Protection of First-aiders**
  - Ensure that medical personnel are aware of the materials involved.
  - Take precautions to protect themselves.
  - Prevent the spread of contamination.
  - Wash contaminated clothing before reuse.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Aspiration may cause pulmonary edema and pneumonitis.
- May cause Headache, Nausea, Vomiting, Diarrhea, Drowsiness and Dizziness.
- Severe eye irritation: symptoms may include stinging, tearing, redness, swelling, and blurred vision.
- Skin irritation: may cause redness, pain, allergic skin reactions, dermatitis, and rash.
- See Section 11.1.

4.3 INDICATIONS FOR IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- Provide general supportive measures and treat symptoms.
- Do not administer sympathomimetic drugs unless absolutely necessary.
- Keep the victim under observation.
- Symptoms may be delayed.
- Exposure may increase myocardial irritability.

5. FIRE FIGHTING MEASURES:

5.1. EXTINGUISHING MEDIA

- **Suitable Extinguishing Media:**
  - The product is not flammable. Use firefighting equipment suitable for the surrounding fire and conduct fire-extinguishing activities according to the surroundings.
  - Use water, fog, foam, powder, dry chemicals, or carbon dioxide (CO2).
- **Extinguishing media which must not be used for safety reasons:**
  None known

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- **General fire and explosion hazards:**
  None known

- **Special Consideration & Procedures:**
  - No unusual fire or explosion hazards were noted.
  - Use standard firefighting procedures and consider the hazards of any other materials involved.
  - There is a high risk of slipping due to leakage or spillage of the product, which creates slippery surfaces.
- **Hazardous Combustion Products:**
  - Oxides of carbon. Thermal decomposition or combustion may release carbon dioxide and other toxic gases or vapors.

5.3. ADVICE FOR FIREFIGHTERS

- **Unusual Fire & Explosion Hazard:**
  None known
- **Special protective equipment and precautions for firefighters:**
  - Firefighters must use standard protective equipment, including a flame-retardant coat, a helmet with a face shield, gloves, rubber boots, and, in enclosed spaces, other protective gear as conditions require.
  - As in any fire, wear a self-contained breathing apparatus (SCBA) with pressure demand and full protective gear.
- **Firefighting equipment/instructions:**
  - Keep unauthorized people out and away.
  - In the case of a fire, stop the leak if it is safe to do so.
  - Move containers from the fire area if you can do so without risk.
  - Try to contain spills or leaks if they can be done safely.
  - In the event of a fire and/or explosion, do not inhale the fumes.
  - For a massive fire in the cargo area, use unmanned hose holders or monitor nozzles if possible. If not, withdraw and let the fire burn out.

6. ACCEDENTAL RELEASE MEASURES:

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- Evacuate the area. Keep unnecessary personnel away from and upwind of the spill/leak.
- Eliminate all ignition sources (no smoking, flares, sparks, or flames in the immediate area).
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Wear appropriate protective equipment and clothing during the clean-up process.
- Use breathing apparatus if exposed to vapors/dust/aerosol.
- Ventilate the area with fresh air (Ensure adequate ventilation).
- Avoid breathing mist or vapor.
- For large spills or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors in accordance with good industrial hygiene practices.
- Local authorities should be notified if significant spillages cannot be contained.
- High risk of slipping due to leakage/spillage of product, forms slippery surfaces with water.
- Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.
- For personal protection, see section 8 of the SDS.

6.2. ENVIRONMENTAL PRECAUTIONS

- Avoid release to the environment.
- Inform appropriate managerial or supervisory personnel of all environmental releases.
- Avoid discharge into drains, water courses or onto the ground.
- Prevent further leakage or spillage if safe to do so.
- For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.
- Inform appropriate managerial or supervisory personnel of all environmental releases.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

- Read and follow safety precautions on the label and SDS.
- Ventilate the area with fresh air.
- Use water spray to reduce vapors or divert vapor cloud drift.
- Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.
- STOP LEAK - If possible, seal leaking container if you can do so without risk.
- Move containers to a safe and open area if the leak is irreparable.
- Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available.
- Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).
- Dike far ahead of spill with suitable material, for later disposal.
- Remember, adding an absorbent material does not remove a physical, health, or environmental hazard.
- Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material.
- Use a non-combustible material like vermiculite, sand or earth to soak up the product.
- Place in a closed metal container approved for transportation by appropriate authorities for later disposal. Seal the container.
- Following product recovery, Clean surfaces thoroughly by flushing area with water (Clean up residue with water) to remove residual contamination.
- Dispose of collected material as soon as possible in accordance with applicable local/regional/national/ international regulations.
- Never return spills to original containers for re-use.
- For waste disposal, see section 13 of the SDS.

6.4. REFERENCE TO OTHER SECTIONS

- Refer to protective measures listed in Sections 7, 8 and 13.

7. HANDLING AND STORAGE:

7.1. PRECAUTIONS FOR SAFE HANDLING

- **Advice on safe handling**
  - Do not handle until all safety precautions have been read and understood.
  - Obtain special instructions before use.
  - Keep away from open flames, hot surfaces and sources of ignition.
  - Avoid breathing mist or vapor.
  - Avoid contact with eyes, skin, and clothing.
  - Avoid prolonged or repeated contact with skin.
  - Use only in well-ventilated areas (Do not use in a confined area with minimal air exchange).
  - Wear appropriate personal protective equipment.
  - Do not re-use empty containers.
  - Take the usual precautions when handling with chemicals.
- **General protective measures**
  - Use personal protective equipment (gloves, respirators, etc.) as required.
  - Do not eat, drink or smoke when using this product.
  - Avoid contact with eyes and prolonged or repeated contact with skin and clothing.
  - Wash hands thoroughly after handling.

- Avoid contact with oxidizing agents (chlorine, chromic acid etc.).
- Avoid release to the environment.
- High risk of slipping due to leakage/spillage of product, forms slippery surfaces.

- **Hygiene measures**
  - Observe good industrial hygiene practices.
  - Provide washing facilities at place of work.
  - Keep away from food and drinks.
- **Advice on protection against fire and explosion**
  - Keep away from open flames, hot surfaces and sources of ignition.
  - Use only in well-ventilated areas (Do not use in a confined area with minimal air exchange).

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- **Requirements for storage rooms and vessels**
  - Keep out of the reach of children.
  - Keep away from heat and sources of ignition.
  - Store in a cool, dry place out of direct sunlight (shaded place).
  - Store in a well-ventilated place.
  - Keep in an area equipped with sprinklers.
- **Advice on storage compatibility**
  - Store away from incompatible materials (oxidizing agents, acids & alkalis).
  - Do not store together with foods or drinks.
- **Further information on storage conditions**
  - Store in closed, original container (Keep container tightly closed).
  - Protect containers against physical damage and check regularly for leaks.
  - Packing in Polyethylene or polypropylene container as recommended by manufacturer.
  - Check that all containers are clearly labelled and free from leaks.

7.3. SPECIFIC END USE(S)

- Use in industrial applications.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

8.1. CONTROL PARAMETERS

Occupational exposure limits (OEL)

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

INGREDIENT DATA

COMPONENT	AGENCY	TYPE	VALUE	FORM
White Spirit (Stoddard) (CAS# 8052-41-3)	CMRG	TWA	245 mg/m^3 – 50 ppm	
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	OSHA	TWA	240 mg/m^3 – 50 ppm	Skin Notation
	ACGIH	TWA	20 ppm	A3: Confirmed animal carcin.

Biological limit values

No biological exposure limits noted for the ingredient(s).

8.2. EXPOSURE CONTROLS

8.2.1. Engineering Measures:

- Provide adequate ventilation (about 10 air changes per hour).
- If exposure limits have not been established, maintain airborne levels to an acceptable level.
- Ensure that eyewash stations and safety/emergency showers are close to the workstation location.
- Ensure control measures are regularly inspected and maintained.
- Ensure operatives are trained to minimize exposure.

8.2.2. Personal protective equipment (PPE):

- **Respiratory protection**
  - No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Chemical respirator with organic vapor cartridge.
- **Hand/body (Skin) protection**
  - Use suitable protective gloves if risk of skin contact.
  - Use protective gloves made of: Nitrile. or Viton rubber (fluor rubber).
  - Wear appropriate clothing to prevent any possibility of skin contact.
- **Eye/face protection**
  - Wear approved chemical safety goggles where eye exposure is reasonably probable.
- **Hygiene Measures**
  - No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.
  - Provide eyewash station and safety shower.
  - Wash with soap and water at the end of each work shift and before eating, smoking and using the toilet.
  - Wash promptly if skin becomes wet or contaminated.
  - Promptly remove any clothing that becomes contaminated, wash contaminated clothing before reuse.
  - When using do not eat, drink or smoke.
  - Clean equipment and the work area every day.
  - Good personal hygiene procedures should be implemented.
- **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.
  - Store in a demarcated banded area to prevent release to drains and/or watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES:

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid/Bulk
Physical State	Liquid
Appearance	Opaque Liquid
Color	White
Odor	Mild petroleum odor
Odor Threshold	Not Available
PH (10% soln.)	8 : 9
Melting Point/Freezing Point	Not available
Initial Boiling Point and boiling range	100 °C (212 °F)
Flash Point	Not available
Evaporation rate	Not available
Flammability	Non flammable
Flammable Limits - lower (LFL)	Not available
Flammable Limits - upper (UFL)	Not available
Explosive limit - lower (LEL)	Not available
Explosive limit - upper (UEL)	Not available
Vapor Pressure	Not available
Vapor Density	> 1 (air = 1)
Relative density	< 1 (Water = 1)
Solubility In Water	100% Soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Percent volatile	Not available
Density	Not available
Explosive properties	Not explosive
Flame extension	Not available
Flammability (flash back)	Not available
Heat of combustion	Not available
Heat of combustion (NFPA 30B)	Not available
Oxidizing properties	Not oxidizing.
Percent volatile	Not available
Specific gravity	Not available
VOC (Weight %)	Not available

9.2. OTHER INFORMATION

Molecular Formula	Not Available
Molecular Weight	Not Available

10. STABILITY AND REACTIVITY:

10.1. REACTIVITY

- The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. CHEMICAL STABILITY

- Stable under normal conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

- **Hazardous Polymerization**
  - Hazardous polymerization does not occur.
- **Hazardous Reactions**
  - No dangerous reaction known under conditions of normal use.

10.4. CONDITIONS TO AVOID

- Avoid temperatures exceeding 60 °C /140 °F.
- Direct sun radiation, heat, sources of ignition, Sparks and/or flames.
- Contact with incompatible materials.
- Physical damage to aerosol can.

10.5. INCOMPATIBLE MATERIALS

- Strong oxidizing agents, Strong acids & bases.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

- Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION:

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

- **Signs and Symptoms of Exposure**

  Based on test data and/or information on the components, this material may produce the following health effects:

  Inhalation:

  May cause drowsiness and dizziness/Headache/Nausea/vomiting. Prolonged inhalation may be harmful.

  Skin contact:

  No adverse effects due to normal skin contact are expected.

  Sensitive Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

  Eye contact:

  Direct contact with eyes may cause temporary moderate eye irritation.

  Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

  Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

Ingestion:

Expected to be a low ingestion hazard.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects.

Chronic Effects:

Ethylene Glycol Monobutyl Ether (Cas# 111-76-2) has caused effects on the liver and kidneys in studies with laboratory animals.

Target Organ Effects:

Single exposure may cause:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Blood Effects: Signs/symptoms may include generalized weakness and fatigue, skin pallor, changes in blood clotting time, internal bleeding, and/or hemoglobinemia.

Single exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Prolonged or repeated exposure may cause:

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision. Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

Carcinogen Status:

None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

- **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity: May be fatal if swallowed and enters airways.

Component	Route	Species	Value
White Spirit (Stoddard) (CAS# 8052-41-3)	Dermal	Rabbit	LD50 > 2,000 mg/kg
	Inhalation - Vapor (4hr.)	Rat	LC50 > 5.2 mg/l
	Ingestion	Rat	LD50 > 5,000 mg/kg
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	Dermal	Rabbit	LD50 400 mg/kg
	Inhalation - Vapor (4hr.)	Rat	LC50 2.2 mg/l
	Ingestion	Rat	LD50 560 mg/kg

ATE = Acute Toxicity Estimate

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Component	Species	Value
White Spirit (Stoddard) (CAS# 8052-41-3)	Rabbit	Irritant
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	Rabbit	Irritant

Serious eye damage/eye irritation

Direct contact with eyes causes temporary irritation.

Component	Species	Value
White Spirit (Stoddard) (CAS# 8052-41-3)	Rabbit	Mild Irritant
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	Rabbit	Severe Irritant

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Component	Species	Value
White Spirit (Stoddard) (CAS# 8052-41-3)	Guinea pig	Not sensitizing
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	Guinea pig	Not sensitizing

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Component	Species	Value
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

Component	Route	Species	Value
White Spirit (Stoddard) (CAS# 8052-41-3)	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

Reproductive toxicity: Suspected of damaging fertility.

Reproductive and/or Developmental Effects

Component	Route	Value	Species	Test Result	Exposure Duration
White Spirit (Stoddard) (CAS# 8052-41-3)	Inhalation	Not toxic to female reproduction	Rat	NOAEL 1,500 ppm	2 generation
	Inhalation	Not toxic to male reproduction	Rat	NOAEL 1,500 ppm	2 generation
	Inhalation	Some positive developmental data exist, but the data are not sufficient for Classification	Rat	NOAEL 500 ppm	2 generation
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	Dermal	Not toxic to development	Rat	NOAEL 1,760 mg/kg/day	During gestation
	Ingestion	Some positive developmental data exist, but the data are not sufficient for Classification	Rat	NOAEL 100 mg/kg/day	During organogenesis
	Inhalation	Some positive developmental data exist, but the data are not sufficient for Classification	Multiple animal species	NOAEL 0.48 mg/l	During organogenesis

Target Organ(s)

Specific target organ toxicity - single exposure

May cause drowsiness and dizziness.

Component	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
White Spirit (Stoddard) (CAS# 8052-41-3)	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Professional judgment	NOAEL Not available	2 generation
	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgment	NOAEL Not available	2 generation
	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgment	NOAEL Not available	2 generation
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	Dermal	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 902 mg/kg	6 hours
	Dermal	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 72 mg/kg	
	Dermal	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 451 mg/kg	6 hours
	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
	Inhalation	blood	May cause damage to organs	Multiple animal species	NOAEL Not available	
	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
	Ingestion	blood	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	poisoning and/or abuse

Specific target organ toxicity - repeated exposure

Component	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	
	Dermal	endocrine system	All data are negative	Rabbit	NOAEL 150 mg/kg/day	90 days
	Inhalation	blood	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.12 mg/l	90 days
	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.4 mg/l	14 weeks
	Inhalation	Kidney and /or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.15 mg/l	14 weeks
	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 1.9 mg/l	8 days
	Ingestion	blood	May cause damage to organs though prolonged or repeated exposure	Multiple animal species	NOAEL Not available	
	Ingestion	kidney and /or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	

Aspiration hazard

Component	Value
White Spirit (Stoddard) (CAS# 8052-41-3)	Aspiration hazard

12. ECOLOGICAL INFORMATION:

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules.

12.1. ECOTOXICITY:

Toxic to aquatic life with long lasting effects.

Component	Aquatic	Species	Exposure	Test endpoint	Test result
Ethoxylated Alcohol (CAS# 68131-39-5)	Fish	Fathead minnow	96 hours	LC50	3.2 - 3.6 mg/l
	Crustacean	Daphnia magna	48 hours	EC50	7.3 mg/l
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)	Fish	Bluegill	96 hours	LC50	1300 mg/l
	Crustacean	Water flea (Daphnia magna)	48 hours	EC50	> 100 mg/l

Estimates for product may be based on additional component data not shown

12.2. PERSISTENCE AND DEGRADABILITY

- Components (Solvents and Surfactants) are readily biodegradable.

12.3. BIOACCUMULATIVE POTENTIAL

- Bioaccumulation is not expected based on an assessment of the ingredients.

12.4. MOBILITY IN SOIL

- No data available.

12.5. RESULTS OF THE PBT AND vPvB ASSESSMENT

- This material does not contain any substances that are assessed to be a PBT or vPvB.

12.6. OTHER ADVERSE EFFECTS

- No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS:

13.1. WASTE TREATMENT METHODS

- **General information**
  - The generation of waste should be minimized or avoided wherever possible.
  - Reuse or recycle products wherever possible.
  - This material and its container must be disposed of in a safe way.
  - Dispose of contents/ container in accordance with the local/regional/national/international regulations.
  - When handling waste, the safety precautions applying to handling of the product should be considered.
  - Take care when handling emptied containers.
  - Empty containers or liners may retain some product residues and hence be potentially hazardous.
  - Do not pierce or burn, even after use.
- **Disposal methods**
  - Consult with the respective regulating authorities to determine the available treatment/disposal facilities.
  - Facility must be capable of handling aerosol cans.
  - Incinerate in a permitted waste incineration facility.
  - Incineration or landfill should only be considered when recycling is not feasible.
  - Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

- Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations.
- Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents.

14. TRANSPORT INFORMATION:

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity (LTD QTY).

14.1. to 14.5.

- **IATA - ICAO**
  NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.
- **IMDG - IMO**
  NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.
- **DOT**
  NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
- **ROAD/RAIL - ADR/RID**
  NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS.

***IATA** = International Air Transport Association (AIR).*

***ICAO** = International Civil Aviation Organization.*

***IMDG** = International Maritime Dangerous Goods.*
***IMO** = International Maritime Organization.*
***DOT** = Department of Transportation (US Ground).*
***ROAD/RAIL - ADR/RID** = International Carriage of Dangerous Goods by Rail (**RID**) and by Road (**ADR**).*

14.6. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

Not Applicable.

14.7. SPECIAL PRECAUTIONS FOR USER

- Always transport in closed containers that are upright and secure.
- Read safety instructions, MSDS and emergency procedures before handling.
- Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION:

US federal regulations This product is not subject to CERCLA reporting requirements

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

SARA 304 Emergency release notification
Not regulated.

TSCA Chemical Action Plans, Chemicals of Concern
Ethoxylated Alcohol (CAS# 68131-39-5)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not listed.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: substance
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2) Listed

CERCLA Hazardous Substance List (40 CFR 302.4)
Ethylene Glycol Monobutyl Ether (CAS# 111-76-2) Listed

CERCLA Eazardous Substances

Not listed

NOTE: Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

Food and Drug Administration (FDA)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

311/312 Hazard Categories: Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No Immediate Hazard – No
Delayed Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Chemical

Yes

SARA 313 (TRI reporting)

Ethylene Glycol Monobutyl Ether (CAS# 111-76-2)

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s)) 90%
Consumer products (40 CFR 59, Subpt. C) Not regulated.

State

Consumer products This product is regulated as a General-Purpose Cleaner
VOC content (CA) 10 %
VOC content (OTC) 10 %

16. OTHER INFORMATION:

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The information and recommendations contained herein are based upon data believed to be correct. No warranty, expressed or implied, is made.

End of Material Safety Data Sheet