1. MATERIAL AND COMPANY IDENTIFICATION

Material Name : Gumout Brake Parts Cleaner
Uses : Brake parts cleaner

Manufacturer/Supplier : SOPUS Products
PO BOX 4427
Houston, TX  77210-4427
USA

MSDS Request : 877-276-7285

Emergency Telephone Number
Spill Information : 877-242-7400
Health Information : 877-504-9351

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity | CAS No. | Concentration |
-----------------|--------|--------------|
Acetone          | 67-64-1| 60.00 - 100.00 % |
Toluene          | 108-88-3| 5.00 - 10.00 % |
Carbon dioxide   | 124-38-9| 5.00 - 10.00 % |

Aerosol spray consisting of non-chlorinated solvent and carbon dioxide propellant.

3. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>Emergency Overview</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazards : Harmful in contact with skin. Vapours may cause drowsiness and dizziness. Irritating to eyes. Irritating to skin. Harmful: may cause lung damage if swallowed. Harmful by inhalation.</td>
</tr>
<tr>
<td>Safety Hazards : Contents under pressure and can explode when exposed to heat or open flame. Extremely flammable.</td>
</tr>
<tr>
<td>Environmental Hazards : Not classified as dangerous for the environment.</td>
</tr>
</tbody>
</table>

Health Hazards
Inhalation : Vapours may cause drowsiness and dizziness. Harmful by inhalation. Harmful by inhalation and in contact with skin.

Skin Contact : Irritating to skin. Harmful in contact with skin. Harmful by inhalation and in contact with skin.

Eye Contact : Irritating to eyes.

Ingestion : Harmful: may cause lung damage if swallowed.

Other Information : Possibility of organ or organ system damage from prolonged exposure; see Chapter 11 for details. Target organ(s): Visual system. Respiratory system. Central nervous system (CNS).
Material Safety Data Sheet

Signs and Symptoms: Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Visual system disturbances may be evidenced by decreases in the ability to discriminate between colours.

Aggravated Medical Condition: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Skin, Eyes, Respiratory system, Central nervous system (CNS).

Environmental Hazards: No specific hazards under normal use conditions.

Additional Information: Under normal conditions of use or in a foreseeable emergency, this product meets the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

4. FIRST AID MEASURES

General Information: Keep victim calm. Obtain medical treatment immediately.

Inhalation: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Inhalation of vapours require immediate medical attention.

Skin Contact: If persistent irritation occurs, obtain medical attention. Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

Eye Contact: If persistent irritation occurs, obtain medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.

Ingestion: If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Advice to Physician: Treat symptomatically. Consult a Poison Control Centre for guidance.

5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash point: -18 °C / 0 °F (Tag Closed Cup (ASTM D56)) (based on concentrate)
Material Safety Data Sheet

Upper / lower Flammability or Explosion limits
: 2.6 - 12.8 %(V)

Auto ignition temperature
: 465 °C / 869 °F

Specific Hazards
: Contents are under pressure and can explode when exposed to heat or flames.

Suitable Extinguishing Media
: Aerosol containers may be cooled by a water fog.

6. ACCIDENTAL RELEASE MEASURES

Protective measures
: Remove all possible sources of ignition in the surrounding area. No specific measures.

Clean Up Methods
: Not applicable.

Additional Advice
: Observe the relevant local and international regulations.

7. HANDLING AND STORAGE

Handling
: Do not puncture or incinerate. Contents under pressure and can explode when exposed to heat or open flame.

Storage
: Must be stored in a well-ventilated area, away from sunlight, ignition sources and other sources of heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Material</th>
<th>Source</th>
<th>Type</th>
<th>ppm</th>
<th>mg/m3</th>
<th>Notation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>ACGIH</td>
<td>TWA</td>
<td>500 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>ACGIH</td>
<td>STEL</td>
<td>750 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>OSHA Z1</td>
<td>PEL</td>
<td>1,000 ppm</td>
<td>2,400 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>OSHA Z1A</td>
<td>TWA</td>
<td>750 ppm</td>
<td>1,800 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>OSHA Z1A</td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>2,400 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>ACGIH</td>
<td>TWA</td>
<td>20 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>OSHA Z1A</td>
<td>TWA</td>
<td>100 ppm</td>
<td>375 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>OSHA Z1A</td>
<td>STEL</td>
<td>150 ppm</td>
<td>560 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>OSHA Z2</td>
<td>TWA</td>
<td>200 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>OSHA Z2</td>
<td>Ceiling</td>
<td>300 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>OSHA Z2</td>
<td>MAX. CONC</td>
<td>500 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>ACGIH</td>
<td>TWA</td>
<td>5,000 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>ACGIH</td>
<td>STEL</td>
<td>30,000 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>OSHA Z1</td>
<td>PEL</td>
<td>5,000 ppm</td>
<td>9,000 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>OSHA Z1A</td>
<td>TWA</td>
<td>10,000 ppm</td>
<td>18,000 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>OSHA Z1A</td>
<td>STEL</td>
<td>30,000 ppm</td>
<td>54,000 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>
Additional Information: Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Shell has adopted as Interim Standards the OSHA Z1A values that were established in 1989 and later rescinded.

Exposure Controls: Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

Personal Protective Equipment:
- Respiratory Protection: Check with respiratory protective equipment suppliers.
- Hand Protection: PVC, neoprene or nitrile rubber gloves.
- Eye Protection: Chemical splash goggles (chemical monogoggles).

Environmental Exposure Controls: Use only in well-ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless to yellowish. Aerosol. Liquid.
Odour: Alcohol-like.
pH: Not applicable.
Initial Boiling Point and Boiling Range: 56 °C / 133 °F
Melting / freezing point: < -95 °C / -139 °F
Flash point: -18 °C / 0 °F (Tag Closed Cup (ASTM D56)) (based on concentrate)
Upper / lower Flammability or Explosion limits: 2.6 - 12.8 % (V)
Auto-ignition temperature: 465 °C / 869 °F
Vapour pressure: 185 hPa at 20 °C / 68 °F
Specific gravity: 0.798
Density: 0.797 g/cm³ (ASTM D-4052)
Water solubility: Soluble.
n-octanol/water partition coefficient (log Pow): 2.65 (based on active matter)
Kinematic viscosity: < 1 mm²/s
Volatile organic carbon content: 9.8 % vol
Evaporation rate (nBuAc=1): 14.4

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.
Conditions to Avoid: Open flame.
Materials to Avoid: Not applicable.
Hazardous Decomposition Products: None expected under normal use conditions.
Hazardous Polymerisation: No
Sensitivity to Mechanical Impact: No
11. TOXICOLOGICAL INFORMATION

Basis for Assessment: Information given is based on data from components.
Acute Oral Toxicity: Expected to be of low toxicity: LD50 >2000 mg/kg, Rat
Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
Acute Dermal Toxicity: Expected to be moderately toxic: LD50 >400-2000 mg/kg, Rabbit
Acute Inhalation Toxicity: Classified as harmful, LC50 >20 mg/l Rat
High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
Skin Irritation: Irritating to skin.
Eye Irritation: Irritating to eyes.
Respiratory Irritation: Expected to be slightly irritating.
Sensitisation: Not a skin sensitisier.
Repeated Dose Toxicity: High exposures can cause drowsiness and dizziness. Central nervous system: repeated exposure affects the nervous system. Effects were seen at high doses only.
Mutagenicity: No evidence of mutagenic activity.
Carcinogenicity: Not a carcinogen.

<table>
<thead>
<tr>
<th>Material</th>
<th>Carcinogenicity Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>ACGIH Group A4: Not classifiable as a human carcinogen.</td>
</tr>
<tr>
<td>Toluene</td>
<td>ACGIH Group A4: Not classifiable as a human carcinogen.</td>
</tr>
<tr>
<td>Toluene</td>
<td>IARC 3: Classification not possible from current data.</td>
</tr>
</tbody>
</table>

Reproductive and Developmental Toxicity: Not a developmental toxicant.

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product.
Acute Toxicity: Data not available
Mobility: Disperses in water.
Persistence/degradability: Data not available
Bioaccumulation: Data not available
Other Adverse Effects: Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

Material Disposal: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
Local Legislation: Disposal should be in accordance with applicable regional,
Material Safety Data Sheet

national, and local laws and regulations.

14. TRANSPORT INFORMATION

US Department of Transportation Classification (49CFR)
Class / Division Consumer Commodity, ORM-D

IMDG
Identification number UN 1950
Proper shipping name AEROSOLS
Class / Division 2.1
Marine pollutant: No

IATA (Country variations may apply)
Identification number UN 1950
Proper shipping name Aerosols, flammable
Class / Division 2.1

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Federal Regulatory Status

Notification Status
EINECS All components listed or polymer exempt.
TSCA Not all components listed.
DSL Not all components listed.

Comprehensive Environmental Release, Compensation & Liability Act (CERCLA)
Gumout Brake Parts Cleaner () Reportable quantity: 6010 lbs
Acetone (67-64-1) Reportable quantity: 5000 lbs
Toluene (108-88-3) Reportable quantity: 1000 lbs

Clean Water Act (CWA) Section 311
Toluene (108-88-3) Reportable quantity: 1000 lbs
SARA Hazard Categories (311/312)

SARA Toxic Release Inventory (TRI) (313)
Toluene (108-88-3) 9.80%

State Regulatory Status

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)
Known to the State of California to cause birth defects or other reproductive harm.

New Jersey Right-To-Know Chemical List
- Acetone (67-64-1) Listed.
- Toluene (108-88-3) Listed.
- Carbon dioxide (124-38-9) Listed.

Pennsylvania Right-To-Know Chemical List
- Acetone (67-64-1) Environmental hazard. Listed.
- Toluene (108-88-3) Environmental hazard. Listed.
- Carbon dioxide (124-38-9) Listed.

16. OTHER INFORMATION

NFPA Rating (Health, Fire, Reactivity) : 2, 3, 0
MSDS Version Number : 1.0
MSDS Effective Date : 10/08/2010
MSDS Revisions : A vertical bar (|) in the left margin indicates an amendment from the previous version.
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