

Surface Technologies

Material Safety Data Sheet

NFPA Hazard Rating Flammability Health 1 0 Reactivity

0 = Minimum 1 = Light 2 = Moderate 3 = Serious 4 = Extreme

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name OPEN GEAR

Product Identifier 53-E 102, Aerosol (400 ml)

MSDS No. L-16E Product Family Lubricant

Manufacturer IGS Aerosols GmbH, Im Hemmet 1, Wehr, Germany, D-79664, +49/7762-8007-0

CANUTEC (Canadian Transport Emergency Centre), (613) 996-6666, 24 Hours / 7 Days

Emergency Contact

Information

High load drive lubricant.

2. HAZARDS IDENTIFICATION

WHMIS Classification



Use





Class A Class B5 Class D2B

A - Compressed Gas; B5 - Flammable Aerosol; D2B - Toxic

Potential Health Effects

Route of Exposure Inhalation; skin contact; skin absorption; eye contact; ingestion.

Inhalation Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Contact May cause mild irritation.

Eye Contact EYE IRRITANT. Symptoms include sore, red eyes, and tearing.

Potential Environmental Effects

Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Registry No.	Concentration %	Other Identifiers
Naphtha (petroleum), hydrotreated light	64742-49-0	10-20	N/Av
Butane	106-97-8	20-30	N/Av
Propane	74-98-6	1-10	N/Av
Isobutane	75-28-5	1-10	N/Av

4. FIRST AID MEASURES

First Aid Procedures

Inhalation Move victim to fresh air. Call a Poison Control Centre or doctor if victim feels unwell. If

unconscious, remove victim from exposure ensuring one's safety whilst doing so, check for

breathing and apply artificial respiration if necessary.

Skin Contact Immediately flush with lukewarm, gently flowing water for 15-20 minutes.

Eye Contact Immediately and briefly flush with lukewarm, gently flowing water for 15-20 minutes, while

holding eyelid(s) open. Transfer to hospital for specialist examination.

Ingestion Immediately call a Poison Control Centre or doctor. Treatment is urgently required. Transport

to a hospital.

5. FIRE FIGHTING MEASURES

Flammable Properties Extremely Flammable. Forms explosive air-vapour mixture. Can ignite if heated. **Suitable Extinguishing** Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Suitable Extinguishing Media

Specific Hazards

In combustion, emits toxic fumes.

Arising from the

Chemical

Protective Equipment and Precautions for

Wear fire equipment at all times. Wear self-contained respirator. Wear protective clothing to

prevent contact with skin and eyes.

Firefighters

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use the Personal Protective Equipment recommended in Section 8 of this MSDS.

Environmental Do not allow into any sewer, on the ground or into any waterway.

Precautions

Methods for Do not use absorbents. Contain spill using noncombustible material such as vermiculite, earth

Containment and or sand.

Clean-up

7. HANDLING AND STORAGE

Handling Ensure sufficient ventilation in work area. Do not handle in a confined space. Smoking is

forbidden.

Storage Store in an area that is: cool, well-ventilated. Keep away from direct sunlight. Keep in original

packaging.

Keep away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	CAS Registry No.	TWA
Naphtha (petroleum), hydrotreated light	64742-49-0	170 ppm (8 hr)
Butane	106-97-8	1000 ppm (8 hr)
Isobutane	75-28-5	1000 ppm (8 hr)
Propane	74-98-6	1000 ppm (8 hr)

Engineering Controls Ensure there is sufficient ventilation in the area.

Personal Protective Equipment (PPE)

Eye/Face ProtectionWear chemical safety goggles.
Solvent resistant protective clothing.
Nitrile gloves, permeation time > 8 hours.

Respiratory Protection Self-contained breathing apparatus must be available in case of emergency.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Aerosol
Colour Grey.

Odour Characteristic Evaporative Rate Moderate

Specific Gravity 0,72 g/ml @ 20 °C (68 °F)

Solubility in Water Insoluble.

Flash Point -60 °C (-76 °F)

Vapour Pressure 2500 hPa

Viscosity Kinematic (Aerosol) 255 cps @ 20°C (68 °F) Viscosity Kinematic (Liquid) 255 cps @ 20°C (68 °F)

Lower Flammable/Explosive 1,4%

Limit

Upper Flammable/Explosive 32%

Limit

Auto-ignition Temperature 510 °C (950 °F)

VOC (g/L) 345 g/L Page 2 of 4

10. STABILITY AND REACTIVITY

Chemical Stability Normally stable.

Conditions to Avoid Heat, open flames, sparks, static discharge and other ignition sources. Avoid direct sunlight.

Incompatible Oxidizing agents (e.g. peroxides).

Materials

Hazardous In combustion, emits toxic fumes of carbon dioxide / carbon monoxide.

Decomposition Products

11. TOXICOLOGICAL INFORMATION

LC50/LD50 Values

Ingredients	CAS Number	LD ₅₀ RAT (oral)	LC ₅₀ RAT
Naphtha (petroleum), hydrotreated light	64742-49-0	2000 mg/kg	5 mg/l (4hrs)
Butane	106-97-8	N/Av	658 g/cm (4hrs)
Propane	74-98-6	N/Av	> 20% (4hrs)
Isobutane	75-28-5	N/Av	14,2 % (4hrs)

Skin Irritation / Corrosion

Mild

Effects of Short-Term (Acute) Exposure

Inhalation

May cause drowsiness and mild irritation at contact area.

Skin Absorption

Mild irritation in contact area.

12. ECOLOGICAL INFORMATION

Persistence and Does not biodegrade readily.

Degradability

Bioaccumulation / Harmful to aquatic organisms.

Accumulation

13. DISPOSAL CONSIDERATIONS

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

14. TRANSPORT INFORMATION

Shipping Information

RegulationUN No.Shipping NameClassPacking GroupCanadian TDG1950Open-Gear (Aerosol)2,1N/Av

Other Transport Information

Special Shipping Not applicable

Information

15. REGULATORY INFORMATION

Canada

Domestic Substances List (DSL)

All ingredients are listed on the DSL.

CEPA - National Pollutant Release Inventory (NPRI)

All ingredients are listed or exempted.

This Product has been classified in accordance with the hazard criteria of the controlled products.

USA

US OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

Additional USA Regulatory Lists

CERCLA: None

SARA Title III - Section 302: None SARA Title III - Section 311/312: None SARA Title III - Section 313: None

New Jersey Right To Know: Substance No. 1040 (Isobutane CAS 75-28-5), Substance No. 0273 (Butane CAS

106-97-8), Substance No. 1594 (Butane CAS 74-98-6) Section 112: Hazardous Air Pollutants (HAPS): None.

16. OTHER INFORMATION

MSDS Prepared By Product Manager, Environmental and MRO Solutions

 Phone No.
 1-888-592-5837

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