

PRODUCT SAFETY DATA SHEET

According to EC directive 91/155/EEC and subsequent amendments

Version: 1.0

Revision Date: 20.03.07

GEOCEL POLYURETHANE GUN CLEANER

1. Identification of the Product.

Commercial Name: Geocel Polyurethane Gun Cleaner
 Name and Address of Supplier: Geocel Limited
 Western Wood Way
 Langage Science Park
 Plympton
 Plymouth
 PL7 5BG
 United Kingdom
 Main Switchboard: +44 (01752) 202060
 Main Fax: +44 (01752) 334384

2. Composition/Information on Ingredients.

Description : Mixture or organic solvents with CFC-free ejecting gas.

Hazardous ingredients :
 EINECS/Index No : Acetone: 200-662-2 / 606-001-00-8
 Ethyl acetate: 205-500-4 / 607-002-00-5
 Propane: 200-827-9 / 601-003-00-5
 Butane and isobutane: 203-448-7 200-857-2 / 601-004-00-0

Hazardous ingredients	CAS No	Content (wt %)	Symbol	R-phrases	S-phrases
Acetone	67-64-1	20-30	F, Xi	11,36,66,67	2,9,16,26
Ethyl Acetate	141-78-6	45-55	F, Xi	11,36,66,67	2,16,26,33
Propane/Butane/Isobutane	74-98-6/ 106-97-8/ 75-28-5	15-25	F+	12	2,9,16,33

For the wording of the listed risk and safety phrases refer to sections 15 and 16.

3. Hazards Identification.

Hazard description: F+ - Extremely flammable (Propane/butane/isobutane)
 Xi - Irritation (solvents)

Information concerning particular hazards for human and environment:
 R12 - Extremely flammable
 R36 - Irritating to eyes
 R66 - Repeated exposure may cause skin dryness or cracking
 R67 - Vapours may cause drowsiness and dizziness

Safety sentences: S2, S9, S16, S26, S33

Adverse human health effects: The liquid and vapours irritate skin and eyes.
 Environmental effects: The cleaner contains organic solvents partially miscible with water. Prevent from penetrating into ground water. Presents no particular risk to the environment, provided that disposal requirements (see section 13) and national or local regulations are complied with.

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Physical and chemical hazards:

Fire or explosion:

F+ - Extremely flammable.

Pressurised container:

protect from sunlight do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking. Build up of explosive mixtures possible without sufficient ventilation. Keep out of reach of children.

Classified system:

The classification was made according to the latest additions of the EU-lists, and expanded by company and literature data.

4. First Aid.

General:

Contact physician if any symptoms occur or in case of doubt and show him/her this Safety Data Sheet. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

After inhalation:

Provide rest, warmth and fresh air. Give artificial respiration if necessary. Place under medical observation.

After skin and clothing contact:

Take off the contaminated clothing and then wash skin immediately with soap and plenty of water. Contact physician if skin inflammation (redness, irritation) occurs.

After eye contact:

Immediately rinse with plenty of water for at least 15 minutes. Lift eyelids and rinse well underneath them.

After swallowing:

Wash out mouth with water and induce vomiting. Consult a physician.

5. Fire Fighting Measures.

Suitable extinguishing agents

Carbon dioxide (CO₂), Foam, Powders

Unsuitable extinguishing agents:

Strong water jet

Specific hazards:

Readily flammable liquid gases and vapours in containers can form explosive mixture with air.
On heating or during combustion:
Toxic vapours and pyrolytic gases.

Specific fire fighting methods:

Cool down the containers/equipment exposed to heat with a water spray.

Protective equipment:

Self-contained breathing apparatus. Safety clothes.

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6. Accidental Release Measures.

Person-related safety precautions: Do not breathe vapours! Provide ventilation. Use breathing apparatus if necessary; protective gloves (not rubber).
Keep away from all sources of ignition.
Vapours are heavier of air. Prevent from vapours penetrating into sewage.
Ventilate the spillage area.
Wear the adequate protective means.

For further information refer to section 8 "Exposure controls/personal protection".

Measures for environmental protection: Prevent entering sewers/surface water/ground water.

Measures for cleaning/collecting: Cover spillage with dry sand or earth and wait. Then remove mechanically.

7. Handling and Storage.

Handling:
Information for safe handling: Good ventilation/exhaust of working area.
Keep heat and ignition sources away. Do not smoke.
Make precaution to prevent static electricity discharge.

Information about fire and explosion protection:
F+ - Extremely flammable;
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away. – Do not smoke.
Protect against electrostatic charges.
Pressurised container; protect from sunlight do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location. Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:
Store away from flammable substances.
Ventilation.

Further information about storage conditions:
Keep in tightly closed original containers. Store in dry and cool place.
Containers are under permanent pressure! Protect from heat and direct sunlight.

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8. Exposure Controls and Personal Protection.

Additional information about design of technical facilities:

No further data; see section 7

Ingredients with limit values that require monitoring at the work place:

Occupational exposure limits:

-Limits

Ethyl acetate: WEL 200ppm
 Acetone: WEL = 1210 mg/m³
 Propane/Butane: WEL = 1450 mg/m³

Personal protective equipment:

-General protective and hygienic measures:

They are not required, if product is handled in accordance with general rules of hygiene and occupational safety.
 Avoid contact with eyes and skin.
 Do not breathe gases/vapours/aerosols.
 Use in good ventilated areas only.
 Do not eat, drink and smoke during work.
 Wash your hands before breaks.
 Pregnant women should prevent inhalation and skin contact.

Respiration protection:

In the event of insufficient ventilation:
 Respiratory protective device with a gas filter for short term or low load;
 independent breathing apparatus for long term exposure or high load.

Protection of hands:

Protective gloves

Eye protection:

Safety glasses.

Body protection:

Protective work clothing.

9. Physical and Chemical Properties.

General information:

Form: Liquid (in pressurised bottle)
Colour: Colourless
Odour: Characteristic (of organic solvents)
pH: N/A

Specific temperatures:

-Melting point: N/A
-Boiling temperature: +57 to +77°C
-Decomposition temperature: distillation

Flammability characteristics:

-Flash point: approx -20°C
-Auto-ignition temperature: > +400°C

Explosion hazard:

Product is not explosive, but the explosive mixture of vapours with air can be formed.

-Explosion limits:

bottom: 1,1 vol. % (condensed gases)
 upper: 13,0 vol. % (condensed gases)

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13. Disposal Considerations.

Product:	Incinerate in approved incinerators for the disposal of special waste in accordance with state regulations.
Containers:	Disposal in accordance with state regulations for pressure vessels. The user's attention is drawn to the possible existence of local regulations regarding disposal.

14. Transport Information.

Land:	
-RID/ADR-GGVS/Class E:	
-UN No:	1950
- Risk code:	2
- Name according to bill of freight:	AEROSOLS
Sea (IMDG/GGVSee):	
-Class IMDG/GGVSee:	2
-Page No:	9022
-UN No:	1950 AEROSOLS
-Packaging category:	
-EMS No:	F-D, S-U
MFAG:	620
Sea pollutant:	No
-Correct technical name:	Aerosol dispensers with a capacity of 520 cm ³
Air (ICAO-TI a IATA-DGR):	
-Class ICAO/IATA:	2.1
-UN/ID No:	1950
-Packaging category:	Y203
-Correct technical name:	Aerosol dispensers with a capacity of 520 cm ³
NOTE:	The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with the Aerosol Service agency.

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15. Regulatory Information.

Labelling according to EU guidelines:

This product is subject to the labelling requirements of EC Directives 67/548/EEC and 88/379/EEC as amended.

Code letter and hazard designation of product:

F+ - Extremely flammable (Propane/butane/isobutane)
Xi - Irritant (acetone, ethylacetate)

Risk phrases:

R12 - Extremely flammable
R36 - Irritating to eyes
R66 - Repeated exposure may cause skin dryness and cracking
R67 - Vapours may cause drowsiness and dizziness

Safety phrases:

S2 - Keep out of reach of children
S16 - Keep away from sources of ignition – No smoking
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S33 - Take precautionary measures against static discharges
S46 - If swallowed, seek medical advice immediately and show this container or label
S51 - Use only in well ventilated areas

Special labelling of certain preparations:

Pressurised container: protect from sunlight do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking.
Protect against electrostatic charges. Build up of explosive mixtures possible without sufficient ventilation.

NOTE:

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions what complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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16. Other Information.

This product safety data sheet was prepared in compliance with Commission Directive 91/155/EEC, 67/548/EEC and 1999/45/EC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Geocel product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Geocel Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with Commission Directive 1999/45/EC.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Geocel shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Geocel supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary – even for the same product – between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Geocel supplier.

Uses:

-Recommended uses:

Removing of uncured polyurethane foam (PU foam)
(For further information, refer to the product technical data sheet).

Other S-phrases:

S9 - Keep container in a well ventilated place
S20/21 - When using do not eat, drink or smoke.
S23 - Do not breathe spray
S28 - After contact with skin wash immediately with plenty of water
S29 - Do not empty into drains
S36/37/29 - Wear suitable protective clothing, gloves and eye/face protection
S38 - In case of insufficient ventilation, wear suitable respiratory equipment.