COOLY

SECTION 1: Identification of the substance/mixture and of the company/supplier

1.1. Product identifier

Product Name : COOLY (Code S 210)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product use: Reagent for Mineral Oil Testkits

1.3. Details of the supplier of the safety data sheet

Company: Vecom Marine B.V.
Mozartlaan 3
3144 NA Maassluis
The Netherlands

Phone : + 31 (0)10 5930 210
Email : sales@vecom-marine.com

1.4. Emergency telephone number

Emergency : +49 178 433 74 34

Contact: CONSULTANK Lutz Harder

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Acc. to Regulation (EC) 1272/2008	
Hazard class / Hazard category	**Hazard statements**
Flammable gases, category 1	H220
Pressgas	H280

2.2. Label elements

Acc. to Regulation (EC) 1272/2008

Pictograms

GHS02
Flame

GHS04
Gas cylinder

Signal word Danger

H statements

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

P statements

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P235 Keep cool.

P260 Do not breathe vapour/spray.

P403 Store in a well ventilated place.

P411 Store at temperatures not exceeding 40°C.

2.3. Other hazards

If Aerosol is heated about 50°C danger of bursting. Content is extremely flammable. DO NOT SMOKE during use. Do not breathe vapour. Avoid contact with skin and eyes. Contact with liquid material causes freezing.

SECTION 3: Composition/information on ingredients

3.1. Substances

This product is a mixture.

3.2. Mixtures

Component	CAS No	EINECS No	Reg. No	Classification (1272/2008/EC)	Content
Butane	106-97-8	203-448-	01-2119474691-32-xxxx	Flam.Gas 1; H220 Compr. Gas; H280	80%
Propane	74-98-6	7200-827-9	01-2119486944-21-xxxx	Flam.Gas 1; H220 Compr. Gas; H280	20%

SECTION 4: First aid measures

4.1. Description of first aid measures

EYES CONTACT

Immediately rinse eye thoroughly with copious quantities of water ensuring eyelids are held open. Obtain medical advice urgently if any pain or redness develops or persists.

SKIN CONTACT

In the case of freezing wash skin thoroughly with plenty of water. Obtain medical advice.

INGESTION

Not applicable.

INHALATION

Inhalation of higher amounts in concentrate form shows narcotic effects. Provide for fresh air. If any symptoms persist, obtain medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Overexposure may cause Central Nervous System (CNS) depression resulting in drowsiness, tiredness, dizziness, headache, and possibly loss of consciousness.

High gas concentrations will displace available oxygen from the air. Unconsciousness and death may occur suddenly from lack of oxygen.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. There is no specific antidote.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Extinguishing media: alcohol-resistant foam, dry fire-extinguishing media or Water spray jet.

MUST NOT BE USED: ful water jet.

5.2. Special hazards arising from the substance or mixture

Dangerous decomposition products: acidic vapours, carbon dioxide, carbon monoxide.

5.3. Advice for firefighters

Use water to keep containers cool. Try to bring container/aerosol away from influence of heat (if this can be done safely).

Attention: If container/aerosols are not kept cool, they may burst and increase danger of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: See Section 8 „Protective equipment“.

Ensure adequate ventilation.

6.2. Environmental precautions

Eliminate all sources of ignition. Do not smoke. Provide for sufficient ventilation. Prevent material entering drains (Danger of explosion).

6.3. Methods and material for containment and cleaning up

Collect with inert material like sand, dry powder, vermiculite, etc and let material vaporize. Provide for sufficient ventilation.

6.4. Reference to other sections

Regarding disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure that there is sufficient ventilation of the area. Avoid direct contact with the product. Keep away from sources of ignition – do not smoke. Do not damage container. Do not breathe aerosol/vapour.

Instructions for fire protection: Store container/aerosols cool with sufficient ventilation. Keep away from sources of ignition. In the case of fire use water spray to keep containers cool.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, well ventilated place. Do not store in cellar. Do not store in passage way and route of escape. Keep fire-fighting equipment in readiness at good accessible place. Keep away from sources of ignition. NO SMOKING. Store at temperatures between 0 – 30°C. About 50°C danger of bursting. Protect from direct sun light. Keep away from strong oxidising materials and materials which are able to explode.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component (CAS No)	Source	AGW	Remark
Butane (106-97-8)	TRGS 900	1000 ml/m³ 2400 mg/m³	Excursion factor 4 Duration 15 min, mean; 4 times per shift; interval 1 hour Category II - Substances with systemic effects (DFG)
Propane (74-98-6)	TRGS 900	1000 ml/m³ 1800 mg/m³	Excursion factor 4 Duration 15 min, mean; 4 times per shift; interval 1 hour Category II - Substances with systemic effects (DFG)

8.2. Exposure controls

Pay attention to measures in section 7.

Personal protection equipment:

Respiratory protection: Respiratory protection not necessary in well ventilated rooms.

Hand protection: Gloves, (recommended material: nitrile).

Eye protection: Eye glasses with side protection.

Skin protection: Use protective clothing if there is a risk of direct contact or splashes.

Hygiene measures

Do not eat, drink or smoke at work.

Wash hands before breaks and after work.

Take off contaminated clothing.

Do not breathe mist/vapour/spray.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: aerosol, liquefied gas	
Colour	: colourless	
Odour	: specific, like hydro carbon	
pH (20°C)	: not applicable	
Melting Point	: not applicable	
Boiling Point/range	: -0,5°C	
Flash Point	: -82°C	
Auto-ignition temperature	: >350°C	
Explosion Limits	: upper: 9,5 Vol%; lower: 1,5 Vol%	
Vapour Pressure	: >3 bar (20°C)	
Relative Density	: 0,55 g/cm³ (20°C)	
Solubility in water	: negligible	
Odour threshold	: 15 … 12000 mg/m³	(butane)
	1800 … 36000 mg/m³	(propane)
Volatile Components	: 100%	

9.2. Other information

No further information.

SECTION 10: Stability and reactivity

10.1. Reactivity

No special information.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

10.5. Incompatible materials

Avoid contact with strong oxidising agents. May form explosive gas air mixtures. Exothermic reaction with concentrated bases.

10.6. Hazardous decomposition products

Carbon dioxide and carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Acute oral toxicity: LD50, rat: not applicable

Acute dermal toxicity: LD50, rabbit: not applicable

Acute Inhalation toxicity: LC50, rat > 20 mg/l/4h

Corrosivity/Irritation

No irritation to eye or skin.
Contact with liquid material may result in freezing.
If mists are inhaled, slightly irritation of the respiratory tract may occur. Vapours may show narcotic effects.

Sensitisation

Not known to be a sensitizer.

Mutagenicity

No mutagenic effects known on today's state of knowledge.

Carcinogenicity

No carcinogenic effects known on today's state of knowledge.

Reproduction toxicity

No reproduction toxic effects known on today's state of knowledge.

Specific Target Organ Toxicity, single exposure

No effects known on today's state of knowledge.

Specific Target Organ Toxicity, repeated exposure

Probably low toxicity at repeated exposure.

Aspiration hazard

No information available.

SECTION 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

The organic components of the preparation are inherently biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

This material is not expected to be bioaccumulated.

12.4. Mobility in soil

Liquified gas. Not water soluble.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Quantitative data with respect to ecological effects of the product are not available.

Water hazard class (Germany): WGK 0 (classification Esso AG)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Final allocation of waste key depends on product application. Has to be done in collaboration with waste disposal contractor.

Dispose according to local regulations. Incineration may be carried out under controlled conditions provided that local regulations for emissions are met. Completely emptied container: May be given to regular disposal. Container with product residues: Have to be disposed according to local regulations.

SECTION 14: Transport information

	Road transport ADR	Railway transport RID	Inland waterway ADN	Maritime transport IMDG	Air transport IATA
14.1. UN No	UN 1950				
14.2. Proper shipping name	Aerosols, flammable				
14.3. Class	2			2.1	2
14.4. Packing Group	-				
14.5. Environmental hazards	No further information				

	Road transport ADR	Railway transport RID	Inland waterway ADN	Maritime transport IMDG	Air transport IATA
14.6. Special pre-caution for user	No further information				
14.7. Transport in bulk acc. to MARPOL 73/78 und IBC Code	No further information				
Tunnel category	(D)	not applicable			
EmS No	not applicable			F-D, S-U	not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Water hazard class (Germany) WGK: 0

Further marking: Container is under pressure. Protect from direct sunlight and temperatures above 50°C. Do not open or burn, even after use. Ensure good ventilation. Do not spray against flame or glowing object. Keep out of reach of children.

15.2. Chemical safety assessment

For the product no chemical safety assessment is available.

SECTION 16: Other information

Last revision

General review. No changes compared to previous version.

This version replaces all previous versions.

Used abbreviations

n.a. not applicable

n.d. not determined

Literature references and sources of information

Regulation (EC) 1907/2006 (REACH) in valid version

Regulation (EC) 1272/2008 in valid version

National Exposure Limit Values in valid version

Transport regulation acc. to ADR, RID, ADN, IMDG, IATA in valid version

Information from supplier and internal data

List of relevant hazard statements from section 2 and 3 (GHS classification)

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Each user is responsible to determine that the product is suitable for the users intended application and that such usage complies with applicable and administrative rules and guidelines. No statement made in this data sheet shall be construed as a permission, recommendation or authorisation given or implied to practise any patented invention without a valid license. VECOM MARINE shall not be held liable for any abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.