SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name or designation of the mixture	Hylomar M Aerosol
Registration number	-
Synonyms	None.
SDS number	7
Date of first issue	22-August-2011
Version number	01
Revision date	-
Supersedes date	-

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

Identified uses	Non-Setting and Non-Hardening Gasketing Compound.
Uses advised against	None known.

Details of the supplier of the safety data sheet

Manufacturer:	Hylomar Ltd.
Address:	Hylo House, Cale Lane, New Springs, Wigan, Greater Manchester, UK, WN2 1JT
Telephone number:	+44(0)1942 617000
E-mail address:	info@hylomar.co.uk
Contact person:	Technical Department
Emergency telephone:	1-760-476-3961 Access code: 333544

Section 2: Hazards identification

Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification	F+;R12, Xi;R36, R66-67

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards		
Flammable aerosols	Category 1	Extremely flammable aerosol.
Health hazards		
Serious eye damage/eye irritation	Category 2	Causes serious eye irritation.
Specific target organ toxicity - single exposure	Category 2 (Central nervous system)	May cause damage to organs (Central nervous system).
Specific target organ toxicity - single exposure	Category 3 narcotic effects	May cause drowsiness or dizziness.

Hazard summary

Physical hazards	Extremely flammable.
Health hazards	Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Aerosol containers can explode when heated, due to excessive pressure build-up. Causes severe eye irritation. Vapours may cause drowsiness and dizziness.
Main symptoms	Exposed may experience eye tearing, redness, and discomfort. Prolonged and/or repeated skin contact may result in mild irritation or redness. Vapours may cause drowsiness and dizziness. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Acetone, Dimethyl ether

Signal word Danger

Hazard statements Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs (Central nervous system).

Precautionary statements

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurised container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Do not breathe mist/vapours/spray. Wear eye/face protection. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Response IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage Store locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information Repeated exposure may cause skin dryness or cracking.

Other hazards Not assigned.

Section 3: Composition/information on ingredients

Mixture

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Acetone	25 - 50	67-64-1 200-662-2	-	606-001-00-8	#
Classification: **DSD:** F;R11, Xi;R36, R66-67 **CLP:** Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336					
Dimethyl ether	25 - 50	115-10-6 204-065-8	-	603-019-00-8	#
Classification: **DSD:** F+;R12 **CLP:** Flam. Gas 1;H220, Eye Irrit. 2;H319, STOT SE 2;H371					

CLP: Regulation No. 1272/2008.
DSD: Directive 67/548/EEC.
#: This substance has workplace exposure limit(s).

Composition comments The full text for all R- and H-phrases is displayed in section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Section 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Description of first aid measures

Inhalation Move into fresh air and keep at rest. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention if any discomfort continues.

Skin contact Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists get medical attention.

Eye contact Flush eyes thoroughly with water for at least 15 minutes. Remove any contact lenses. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly. Drink a few glasses of water or milk. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed Exposed may experience eye tearing, redness, and discomfort. Prolonged and/or repeated skin contact may result in mild irritation or redness. Vapours may cause drowsiness and dizziness. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen.

Section 5: Firefighting measures

General fire hazards

Extremely flammable aerosol - contents under pressure. Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. vapours are heavier than air and may travel along the ground to some distant source of ignition and flash back.

Extinguishing media

Suitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Aerosol containers can explode when heated, due to excessive pressure build-up. By heating and fire, harmful vapours/gases may be formed.

Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

Special firefighting procedures

Cool containers exposed to heat with water spray and remove container, if no risk is involved. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of vapours/spray and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unnecessary personnel away.

For emergency responders

Keep unnecessary personnel away. Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up

Eliminate all ignition sources. Ventilate the area. Wipe up with absorbent material (e.g. cloth, fleece). Transfer to a container for disposal. Following product recovery, flush area with water.

Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

Precautions for safe handling

Keep away from sources of ignition - No smoking. Use non-sparking tools and explosion-proof equipment. Vapours may form explosive mixtures with air. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapours and spray mist and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid prolonged exposure. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Pressurised container: Must not be exposed for temperatures above 50°C. Aerosol containers can explode when heated, due to excessive pressure build-up. Keep away from heat, spark, open flames and other sources of ignition. Do not puncture, incinerate or crush. Avoid exposure to long periods of sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up.

Specific end use(s)

Non-Setting and Non-Hardening Gasketing Compound.

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Acetone (67-64-1)	TWA	1210 mg/m3
	STEL	1500 ppm
		3620 mg/m3
	TWA	500 ppm
Dimethyl ether (115-10-6)	TWA	400 ppm
	STEL	500 ppm
	TWA	766 mg/m3
	STEL	958 mg/m3

EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

Components	Type	Value
Acetone (67-64-1)	TWA	1210 mg/m3 500 ppm
Dimethyl ether (115-10-6)	TWA	1000 ppm 1920 mg/m3

Recommended monitoring procedures Follow standard monitoring procedures.

DNEL Not available.

PNEC Not available.

Exposure controls

Appropriate engineering controls Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

Skin protection

- Hand protection Wear protective gloves. Butyl rubber gloves are recommended. Breakthrough time >120 min. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

- Other Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards Not applicable.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls Environmental manager must be informed of all major releases.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Aerosol Blue thixotropic gel.

Physical state Liquid.

Form Aerosol Thixotropic gel.

Colour Blue.

Odour Sweet. Ethereal.

Odour threshold Not available.

pH Not applicable.

Melting point/freezing point Not available.

Boiling point, initial boiling point, and boiling range Not applicable.

Flash point -41 °C (-41.8 °F) Closed cup

Auto-ignition temperature Not available.

Flammability (solid, gas) Not applicable.

Flammability limit - lower (%) 3.4

Flammability limit - upper (%) 57

Oxidising properties Not available.

Explosive properties Not available.

Explosive limit Not available.

Vapour pressure 185 (20 °C/68 °F)

Vapour density 2 (Air = 1) (20 °C/68 °F)

Evaporation rate Not applicable.

Relative density	1.03 (20 °C/68 °F)
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable.
VOC (Weight%)	40 - 44 (Hylomar Test Method 1.1A Determination of Volatile Matter)
Percent volatile	Not available.
Other information	No relevant additional information available.

Section 10: Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
Chemical stability	Risk of ignition. Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Pressurised container: Must not be exposed for temperatures above 50°C. Protect against direct sunlight.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion	Ingestion may cause irritation and malaise.
Inhalation	Vapours may cause drowsiness and dizziness. In high concentrations, vapours may be irritating to the respiratory system.
Skin contact	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact	Causes serious eye irritation.
Symptoms	Exposed may experience eye tearing, redness, and discomfort. Prolonged and/or repeated skin contact may result in mild irritation or redness. Vapours may cause drowsiness and dizziness. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components	Test results
Dimethyl ether (115-10-6)	Acute Inhalation LC50 Rat: 308.5 mg/l 4 Hours
Acetone (67-64-1)	Acute Dermal LD50 Rabbit: 20000 mg/kg
	Acute Inhalation LC50 Rat: 50 mg/l 8 Hours
	Acute Oral LD50 Rat: 5800 mg/kg

Skin corrosion/irritation	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory sensitisation	Not classified.
Skin sensitisation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness. May cause damage to organs: Central nervous system.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Mixture versus substance information	Not applicable.
Other information	No other specific acute or chronic health impact noted.

Section 12: Ecological information

Toxicity

Components	Test results
Acetone (67-64-1)	LC50 Fathead minnow (Pimephales promelas): > 100 mg/l 96 hours

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility The acetone component is miscible with water and may spread in water systems.

Environmental fate - Partition coefficient Not available.

Mobility in soil Not available.

Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

Other adverse effects The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: Disposal considerations

Waste treatment methods

Residual waste Do not discharge into rivers, lakes, mountains, etc. because the product may affect the environment.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Disposal methods/information Do not discharge into drains, water courses or onto the ground. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose of in accordance with local regulations.

Section 14: Transport information

ADR

UN number UN1950
UN proper shipping name AEROSOLS.
Transport hazard class(es) 2.1
Subsidiary class(es) -
Environmental hazards No
Labels required 2.1
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

UN number UN1950
UN proper shipping name AEROSOLS.
Transport hazard class(es) 2.1
Subsidiary class(es) -
Environmental hazards No
Labels required 2.1
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ADN

UN number UN1950
UN proper shipping name AEROSOLS.
Transport hazard class(es) 2.1
Subsidiary class(es) -
Environmental hazards No
Labels required 2.1
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN1950
UN proper shipping name Aerosols, flammable.
Transport hazard class(es) 2.1
Subsidiary class(es) -
Environmental hazards No

Labels required	2.1
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS.
Transport hazard class(es)	2.1
Subsidiary class(es)	-
Marine pollutant	No
Labels required	2.1
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

Section 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registery (EPER)

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

Not listed.

Other regulations	The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.
National regulations	Not available.
Chemical safety assessment	No Chemical Safety Assessment has been carried out.

Section 16: Other information

List of abbreviations	CLP: Regulation No. 1272/2008. DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration.
References	Not available.
Information on evaluation method leading to the classification of mixture	The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.
Full text of any statements or R-phrases and H-phrases under Sections 2 to 15	R11 Highly flammable. R12 Extremely flammable. R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness. H220 - Extremely flammable gas. H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H371 - May cause damage to organs.
Training information	Follow training instructions when handling this material.
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.
Issue date	22-August-2011
Revision date	22-August-2011

Print date 23-August-2011