# **H**YLOMAR\*

# SAFETY DATA SHEET

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

n

Hylomar M/Aerograde Ultra PL32A- Light, Medium and Heavy Grades

of the mixture

Registration number -

Synonyms None.
SDS number 4

Issue date 23-August-2018

Version number 02

Revision date 05-September-2018 Supersedes date 23-August-2018

1.2. 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.

1.3. 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

1.4. Emergency telephone +1-760-476-3961 (US)

number

Access code: 333544

# **SECTION 2: Hazards identification**

#### 2.1. 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 Regulation (EC) No 1272/2008 as amended

**Physical hazards** 

Flammable liquids Category 2 H225 - Highly flammable liquid and

vapour.

Health hazards

Serious eye damage/eye irritation Category 2 H319 - Causes serious eye

irritation.

Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

exposure

dizziness.

Hazard summary Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness and

dizziness.

#### 2.2. Label elements

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

Contains: Acetone

**Hazard pictograms** 



Signal word Danger

**Hazard statements** 

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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## **Precautionary statements**

Prevention

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

Avoid breathing mist or vapour. P261

Wear protective gloves/protective clothing/eye protection/face protection. P280

Response

In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. P370 + P378

Storage

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **General information**

Chemical name	%	CAS-No. / EC No.	<b>REACH Registration No.</b>	Index No.	Notes
Acetone	25 - 50	67-64-1 200-662-2	-	606-001-00-8	#
Classification:	Flam. Liq. 2;H225, Eye	Irrit. 2;H319, STOT	SE 3;H336		
Silicon dioxide	10 - 20	7631-86-9 231-545-4	01-2119379499-16-xxxx	-	
Classification:	-				
Ethylene glycol	≤ 1	107-21-1 203-473-3	-	603-027-00-1	#
Classification:	Acute Tox. 4;H302, ST	OT RE 2;H373			

### List of abbreviations and symbols that may be used above

#: This substance has been assigned Community workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in **Composition comments** 

percent by volume. The full text for all H-statements is displayed in section 16.

## **SECTION 4: First aid measures**

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

protect themselves. Wash contaminated clothing before reuse.

4.1. 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.

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

attention if any discomfort continues.

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

discomfort continues.

4.2. Most important symptoms and effects, both acute and

Irritation of eyes and mucous membranes. Vapours may cause drowsiness and dizziness.

Prolonged or repeated skin contact may cause drying, cracking, or irritation.

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

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

## **SECTION 5: Firefighting measures**

General fire hazards The product is highly 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.

5.1. Extinguishing media

Suitable extinguishing

media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

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

media

delayed

5.2. Special hazards arising from the substance or mixture

By heating and fire, harmful vapours/gases may be formed.

5.3. 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 firefighting: follow the general fire precautions indicated in the workplace.

Special fire fighting 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**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapours/mist and contact with skin and eyes. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Ventilate the area. Following product recovery, flush area with water.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Ground container and transfer equipment to eliminate static electric sparks. Use non-sparking hand tools and explosion-proof electrical equipment. Use only outdoors or in a well-ventilated area. Avoid breathing mists or vapours. Avoid 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. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Follow rules for flammable liquids. Keep container tightly closed in a cool, well-ventilated place. Store away from incompatible materials. Keep away from heat, spark, open flames and other sources of ignition. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep in an area equipped with sprinklers.

**7.3. Specific end use(s)** Non-Setting and Non-Hardening Gasketing Compound.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## Occupational exposure limits

# UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	Form
Acetone (CAS 67-64-1)	STEL	3620 mg/m3	
		1500 ppm	
	TWA	1210 mg/m3	
		500 ppm	
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3	Vapour.
		40 ppm	Vapour.
	TWA	52 mg/m3	Vapour.
		10 mg/m3	Particulate.
		20 ppm	Vapour.

# EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Ethylene glycol (CAS 107-21-1)	STEL	104 mg/m3	
		40 ppm	
	TWA	52 mg/m3	
		20 ppm	

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Workers

Components Value Assessment factor Notes Silicon dioxide (CAS 7631-86-9) Long-term, Systemic, Inhalation 4 mg/m3 respiratory tract irritation

Predicted no effect concentrations (PNECs)

**Exposure guidelines** 

UK EH40 WEL: Skin designation

Ethylene glycol (CAS 107-21-1) Can be absorbed through the skin.

Not available.

8.2. Exposure controls

Appropriate engineering

controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level. Eye wash fountain and emergency showers are recommended.

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.

Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166. Eye/face protection

Skin protection

- Hand protection Wear suitable gloves tested to EN374. 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 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. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).

Thermal hazards Not applicable.

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or

engineering modifications to the process equipment may be necessary to reduce emissions to

acceptable levels.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

**Appearance** 

**Physical state** Liquid.

**Form** Thixotropic gel.

Colour Blue.

Sweet. Ethereal. Odour **Odour threshold** Not available. Not available. нα Melting point/freezing point Not available.

Initial boiling point and boiling Not applicable.

range

Flash point -17.0 °C (1.4 °F) Closed cup

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper 57

(%)

Vapour pressure 185 mmHg (20 °C/68 °F) Vapour density 2 (Air = 1) (20 °C/68 °F)

Relative density Heavy grade: 1.10 (20 °C/68 °F)

Medium grade: 1.03 (20 °C/68 °F) Light grade: 0.95 (20 °C/68 °F)

Solubility(ies)Slightly miscible.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not applicable.

Explosive properties Not explosive.

Oxidising properties Not oxidising.

9.2. Other information

**Explosive limit** Not available.

VOC 25 - 50 (Hylomar Test Method 1.1A Determination of Volatile Matter)

# **SECTION 10: Stability and reactivity**

**10.1. Reactivity**The product is stable and non reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Risk of ignition. Material is stable under normal conditions.10.3. Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

reactions

**10.4. Conditions to avoid** Heat, flames and sparks. Avoid temperatures exceeding the flash point.

**10.5. Incompatible materials** Strong oxidising agents.

**10.6. Hazardous** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

decomposition products vapours.

## **SECTION 11: Toxicological information**

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

Information on likely routes of exposure

**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.

**Ingestion** Ingestion may cause irritation and malaise.

**Symptoms** Irritation of eyes and mucous membranes. Vapours may cause drowsiness and dizziness.

Prolonged or repeated skin contact may cause drying, cracking, or irritation.

## 11.1. Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Components Species Test Results

Acetone (CAS 67-64-1)

Acute Dermal

LD50 Rabbit > 15700 mg/kg, 24 Hours

Inhalation Vapour

LC50 Rat 76 mg/l, 4 Hours

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Components **Species Test Results** Oral LD50 Rat 5800 mg/kg Ethylene glycol (CAS 107-21-1) Acute **Dermal** LD50 Rabbit 9530 mg/kg Skin corrosion/irritation Prolonged or repeated skin contact may cause drying, cracking, or irritation. Serious eye damage/eye Causes serious eye irritation. irritation Based on available data, the classification criteria are not met. Respiratory sensitisation Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Specific target organ toxicity -May cause drowsiness or dizziness.

single exposure

Specific target organ toxicity repeated exposure

Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met. Mixture versus substance

information

Not applicable.

Other information No other specific acute or chronic health impact noted.

## **SECTION 12: Ecological information**

12.1. Toxicity 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.

Components **Species Test Results** 

Acetone (CAS 67-64-1)

Aquatic

Acute

Crustacea LC50 Daphnia pulex 8800 mg/l, 48 Hours Fish LC50 Pimephales promelas 7163 mg/l, 96 Hours

Chronic

**NOEC** Crustacea Daphnia magna > 79 mg/l, 21 days

Ethylene glycol (CAS 107-21-1)

Aquatic

Acute

Crustacea EC50 Ceriodaphnia dubia 10000 mg/l, 48 Hours Fish LC50 24591 mg/l, 96 Hours Oncorhynchus mykiss

Chronic

NOEC Crustacea Ceriodaphnia dubia 3469 mg/l, 7 days **NOEC** Fish Oncorhynchus mykiss 14692 mg/l, 12 days

12.2. Persistence and

degradability

No data available.

12.3. Bioaccumulative potential

**Partition coefficient** 

n-octanol/water (log Kow)

Acetone (CAS 67-64-1) -0.24Ethylene glycol (CAS 107-21-1) -1.36

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil No data available.

Mobility in general The product is miscible with water. May spread in water systems.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner. 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.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

**EU waste code** 08 04 09\*

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Do

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**

**14.1. UN number** UN1133 **14.2. UN proper shipping** ADHESIVES.

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Hazard No. (ADR) 33
Tunnel restriction code D/E
14.4. Packing group II
14.5. Environmental hazards No.

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

**RID** 

**14.1. UN number** UN1133 ADHESIVES.

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group II
14.5. Environmental hazards No.

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

**14.1. UN number** UN1133 **14.2. UN proper shipping** ADHESIVES.

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group II
14.5. Environmental hazards No.

**14.6. Special precautions** Read safety instructions, SDS and emergency procedures before handling.

for user

**IATA** 

**14.1. UN number** UN1133 **14.2. UN proper shipping** Adhesives.

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group ||
14.5. Environmental hazards No.

7/9

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

**IMDG** 

**14.1. UN number** UN1133 **14.2. UN proper shipping** ADHESIVES.

name

14.3. Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
14.4. Packing group ||
14.5. Environmental hazards

Marine pollutant No. EmS F-E, S-D

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk

according to Annex II of MARPOL 73/78 and the IBC

Not applicable.

Code

## **SECTION 15: Regulatory information**

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

#### **EU regulations**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

#### **Authorisations**

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Acetone (CAS 67-64-1)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

## Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as

amended. The product is classified and labelled in accordance with Regulation (EC) 1272/2008

(CLP Regulation) as amended.

Directive 2012/18/EU on major accident hazards involving dangerous substances: P5

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

mended.

Young people under 18 years old are not allowed to work with this product according to EU

Directive 94/33/EC on the protection of young people at work, as amended.

No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

#### List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%.

NOEC: No observed effect concentration.

References

ECHA CHEM

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 H-statements not written out in full under Sections 2 to 15

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure by ingestion.

**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