

# SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or designation of the mixture	Hylomar M/Aerograde Ultra PL32A- Light, Medium and Heavy Grades
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 th	e 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 number	+1-760-476-3961 (US)
	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 exposure	Category 3 narcotic effects	H336 - May cause drowsiness or 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	
P210 P261 P280	Keep away from heat/sparks/open flames/hot surfaces No smoking. Avoid breathing mist or vapour. Wear protective gloves/protective clothing/eye protection/face protection.
Response	
P370 + P378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
Storage	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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	e 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).

Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in
	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 meas	ures
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.
4.2. Most important symptoms and effects, both acute and delayed	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 m	easures

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

5.2. Special hazards arising By heating and fire, harmful vapours/gases may be formed.
from the substance or mixture
5.3. Advice for firefighters

Special protective<br/>equipment for firefightersSelf-contained breathing apparatus and full protective clothing must be worn in case of fire.<br/>Selection of respiratory protection for firefighting: follow the general fire precautions indicated in<br/>the workplace.Special fire fightingCool containers exposed to heat with water spray and remove container, if no risk is involved.

 special me righting
 coor containers exposed to heat with water spray and remove container, into risk is involved.

 procedures
 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.
<b>SECTION 7: Handling and</b>	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 L Components	imit Values in	n Directives 91/322/EEC Type	, 2000/39/EC, 2006/15/EC, 2009/161/EU 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 biologi <sup>,</sup>	cal exposure limits noted	for the ingredient(s).
Recommended monitoring procedures	-	ndard monitoring procedu	
Derived no effect levels (DNEL	_s)		
<u>Workers</u>			
Components		Value	Assessment factor Notes
Silicon dioxide (CAS 7631-8	36-9)		
Long-term, Systemic, I	nhalation	4 mg/m3	respiratory tract irritation
Predicted no effect concentrations (PNECs)	Not availal	ble.	
xposure guidelines			
UK EH40 WEL: Skin desig	nation		
Ethylene glycol (CAS 1	07-21-1)	Car	n be absorbed through the skin.
3.2. Exposure controls			
Appropriate engineering controls	Ventilation exhaust ve exposure l	n rates should be matched entilation, or other engine limits. If exposure limits h	exhaust ventilation. Good general ventilation should be used. d to conditions. If applicable, use process enclosures, local ering controls to maintain airborne levels below recommende ave not been established, maintain airborne levels to an n and emergency showers are recommended.
ndividual protection measure	s, such as pe	rsonal protective equip	ment
General information	Personal p	protective equipment sho	uld be chosen according to the CEN standards and in personal protective equipment.
Eye/face protection	Wear safe	ty glasses with side shiel	ds (or goggles). Eye protection should meet standard EN 16
Skin protection			
- Hand protection			74. Be aware that the liquid may penetrate the gloves. able gloves can be recommended by the glove supplier.
- Other	Normal wo	ork clothing (long sleeved	shirts and long pants) is recommended.
Respiratory protection	limits (whe been estal	ere applicable) or to an ac blished), an approved res	tain airborne concentrations below recommended exposure cceptable level (in countries where exposure limits have not spirator must be worn. In case of inadequate ventilation or ris le respiratory equipment with combination filter (type A2/P2).
Thermal hazards	Not applica	able.	
lygiene measures	and before		iene measures, such as washing after handling the material smoking. Routinely wash work clothing and protective s.
Environmental exposure controls	with the re engineerin	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	d chemical	properties	

## **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties

# AppearanceLiquid.Physical stateLiquid.FormThixotropic gel.ColourBlue.OdourSweet. Ethereal.Odour thresholdNot available.pHNot available.Melting point/freezing pointNot available.

Initial boiling point and boiling range	Not applicable.
Flash point	-17.0 °C (1.4 °F) Closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	4
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 coefficient (n-octanol/water)	Not available.
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	roactivity

# **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 reactions	No dangerous reaction known under conditions of normal use.
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 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
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)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 15700 mg/kg, 24 Hours	
Inhalation			
Vapour			
LC50	Rat	76 mg/l, 4 Hours	

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 ma	ay cause drying, cracking, or irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitisation	Based on available data, the classifica	ation criteria are not met.
Skin sensitisation	Based on available data, the classifica	ation criteria are not met.
Germ cell mutagenicity	Based on available data, the classifica	ation criteria are not met.
Carcinogenicity	Based on available data, the classifica	ation criteria are not met.
Reproductive toxicity	Based on available data, the classifica	ation criteria are not met.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.	
Specific target organ toxicity - repeated exposure	Based on available data, the classifica	ation criteria are not met.
Aspiration hazard	Based on available data, the classifica	ation criteria are not met.
Mixture versus substance information	Not applicable.	
Other information	No other specific acute or chronic hea	Ith impact noted.
SECTION 12: Ecological in	nformation	

## **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			
Crustacea	NOEC	Daphnia magna	> 79 mg/l, 21 days
thylene glycol (CAS 107-21-	1)		
Aquatic			
Acute			
Crustacea	EC50	Ceriodaphnia dubia	10000 mg/l, 48 Hours
Fish	LC50	Oncorhynchus mykiss	24591 mg/l, 96 Hours
Chronic			
Crustacea	NOEC	Ceriodaphnia dubia	3469 mg/l, 7 days
Fish	NOEC	Oncorhynchus mykiss	14692 mg/l, 12 days
2.2. Persistence and egradability	No data a	vailable.	
2.3. Bioaccumulative poter	ntial		
artition coefficient			
-octanol/water (log Kow)			
Acetone (CAS 67-64-1) Ethylene glycol (CAS 107-21-1)		-0.24 -1.36	
Sioconcentration factor (BC	,		
2.4. Mobility in soil	No data a		
lobility in general		ict is miscible with water. May spread	in water systems.
2.5. Results of PBT and vP ssessment	<b>vB</b> This mixtu		ssed to be vPvB / PBT according to Regulation
2.6. Other adverse effects	The produ potential.	ct contains volatile organic compound	Is which have a photochemical ozone creation

# **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 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**

	ormation
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	I
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
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	
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	
Class	3
Subsidiary risk	- 3
Label(s)	5 
14.4. Packing group 14.5. Environmental hazards	
	Read safety instructions, SDS and emergency procedures before handling.
14.6. Special precautions for user	Read salety instructions, SDS and emergency procedures before nandling.
IATA	
14.1. UN number	UN1133
14.2. UN proper shipping	Adhesives.
name	Autorives.
14.3. Transport hazard class	(es)
Class	3
Subsidiary risk	-
Label(s)	3
14.4. Packing group	5 
14.5. Environmental hazards	

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling. for user IMDG UN1133 14.1. UN number 14.2. UN proper shipping ADHESIVES. name 14.3. Transport hazard class(es) Class 3 Subsidiary risk -3 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards Marine pollutant No. F-E, S-D EmS Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions for user Not applicable. 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC 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.
Pagulation (EII) No. 649/2012 concerning the export and import of dangerous chemicals. Append J. Bart 3 as amonded

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 Not listed.

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

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

 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.

15.2. Chemical safety assessment

# **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.