



SAFETY DATA SHEET

**HYL100 / AEROGRADE PL32 - LIGHT,
MEDIUM & HEAVY GRADES**

Infosafe No.: LQ5A3
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Issued by: NASON ENGINE PARTS

1. IDENTIFICATION

GHS Product Identifier

HYL100 / AEROGRADE PL32 - LIGHT, MEDIUM & HEAVY GRADES

Company Name

NASON ENGINE PARTS

Address

Unit 2/5 Monterey Road Dandenong South
Vic 3175 Australia

Telephone/Fax Number

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Recommended use of the chemical and restrictions on use

Non-Setting and Non-Hardening Gasketing Compound.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Acute Toxicity - Oral: Category 4

Carcinogenicity: Category 2

Eye Damage/Irritation: Category 2A

Skin Corrosion/Irritation: Category 2

STOT Repeated Exposure: Category 2

Signal Word (s)

WARNING

Hazard Statement (s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs (central nervous system) through prolonged or repeated exposure .

Pictogram (s)

Exclamation mark, Health hazard



Precautionary statement – Prevention

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash contaminated skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P281 Use personal protective equipment as required.

Precautionary statement – Response

- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P330 Rinse mouth.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.

Precautionary statement – Storage

- P405 Store locked up.

Precautionary statement – Disposal

- P501 Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Dichloromethane	75-09-2	25-65 %
Ingredients determined not to be hazardous		Balance

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (131 126)

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, water fog, dry chemical, alcohol resistant foam or carbon dioxide.

Unsuitable Extinguishing Media

Do not use water jet.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including phosgene, hydrogen chloride, carbon monoxide, carbon dioxide and oxides of nitrogen.

Specific Hazards Arising From The Chemical

This product will burn if exposed to fire. Solvent vapours may form explosive mixtures with air.

Hazchem Code

2X

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Remove all sources of ignition. Evacuate all unprotected personnel. Do not allow contact with skin and eyes. Do not breathe mist/vapour. It is essential to wear self-contained breathing apparatus (S.C.B.A) and full personal protective equipment and clothing to prevent exposure. Avoid exposure to spillage by collecting the material using explosion proof vacuum and transfer into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Toxic and combustible material. Avoid exposure. Exposure without protection must be prevented. Wear appropriate personal protective equipment and clothing to prevent exposure. Use in designated areas with local exhaust ventilation. DO NOT store or use in confined spaces. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in spray or mists or vapours. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain toxic residues. Do not empty into drains. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities. Avoid exposure. Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities

This material is Toxic and must be stored, handled and maintained according to the appropriate regulations. Limit quantity in storage. Restrict access to storage area. Post appropriate warning signs. Consider leak detection and alarm systems, as required. Structural materials and lighting and ventilation systems in storage area should be corrosion resistant. Store in a cool, dry, well-ventilated area away from sources of ignition, oxidizing agents, strong mineral acids, bases metal and/or water.

Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations. For information on the design of the storeroom, reference should be made to Australian Standard AS/NZS 4452 The storage and handling of toxic substances.

Storage Temperatures

Store in closed original container at temperatures between 5°C and 25°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Dichloromethane

TWA: 50 ppm

TWA: 174 mg/m³

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

This substance is toxic and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. Provide sufficient ventilation to keep airborne levels below the exposure limits or as low as possible. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Alternatively, a process enclosure system such as a fume cupboard should be employed.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as polyvinyl alcohol. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Gel	Appearance	Blue thixotropic gel.
Colour	Blue	Odour	Sweet
Decomposition Temperature	Not available	Melting Point	Not available
Boiling Point	Not available	Solubility in Water	Slightly miscible
Specific Gravity	1.32 (20°C)	pH	Not available
Vapour Pressure	47 kPa (20°C)	Vapour Density (Air=1)	2.93 (20°C)
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	Not available	Volatile Component	VOC (Weight): 25 - 65 % (Hylomar Test Method 1.1A Determination of Volatile Matter)
Partition Coefficient: n-octanol/water	Log Pow: 1.25 - 1.30 (measured)	Flash Point	Not available
Flammability	Not flammable	Auto-Ignition Temperature	600°C
Flammable Limits - Lower	Not available	Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Reactivity

Not available

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

Heat, open flames, sparks and other sources of ignition.

Incompatible materials

Strong oxidising agents. Alkali metals.

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes including: phosgene, hydrogen chloride, carbon monoxide and carbon dioxide.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Available toxicity data is given below

Acute Toxicity - Oral

LD50 (rat): 1410-2524 mg/kg

Acute Toxicity - Inhalation

LC50 (rat): 15,000ppm

Acute Toxicity - Dermal

LD50 (rat): >2000mg/kg

Ingestion

Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

Inhalation

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Skin

Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.
Positive in vitro, but negative in vivo assays.

Carcinogenicity

Suspected of causing cancer. Classified as a suspected human carcinogen.
Dichloromethane is listed as a Group 2A: Probably carcinogenic to humans according to International Agency for Research on Cancer (IARC)

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure

May cause damage to organs (central nervous system) through prolonged or repeated exposure.
May also cause damage to the following organs through prolonged or repeated exposure: Liver. Kidneys. Prolonged exposure may cause chronic effects. Symptoms may be delayed. Severe overexposure may cause cardiac sensitisation and result in irregular rhythm.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Available ecotoxicity data given below.

Persistence and degradability

The product is not readily biodegradable. BOD: 5 - 25% / 28 days.
The product is intrinsically biodegradable. Degradation = 100% / 28 days.

Mobility

The product is slightly soluble in water.

Bioaccumulative Potential

Potential to bioaccumulate is low.
BCF (Cyprinus carpio): 6.4 - 40, 42 days at 0.025 ppm.
Partition coefficient n-octanol / water (log Kow); 1.25 - 1.30 (measured)
Log Pow: 1.25 - 1.30 (measured)

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

Acute Toxicity - Daphnia

EC50 (Daphnia magna): 135 - 2270 mg/l/48h

Acute Toxicity - Algae

EC50: > 662 mg/l/48h

Other Information

LC50 (Poecilia reticulata, guppy): 295 mg/l/14 days

NOEC (Pimephales promelas): 357 mg/l/8 days

13. DISPOSAL CONSIDERATIONS**Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION**Transport Information**

Road and Rail Transport:

This material is classified as Dangerous Goods Division 6.1 Toxic Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

Class 6 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Class 3, Flammable Liquids, if the Class 3 dangerous goods are nitromethane
- Class 5, Oxidizing Substances and Organic Peroxides, if the Class 6 material is a fire risk substance
- Class 8, Corrosive Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids

And are incompatible with food and food packaging in any quantity.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN-No: 2810

Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (Contains Dichloromethane)

Class: 6.1

Packaging Group: III

EMS No.: F-A, S-A

Special Provisions: 223 274

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN-No: 2810

Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (Contains Dichloromethane)

Class: 6.1

Packaging Group: III

Hazard Label: Toxic

Packaging Instructions (passenger & cargo): 655

Packaging Instructions (cargo only): 663

Special Provisions: A3 A4 A137

U.N. Number

2810

UN proper shipping name

TOXIC LIQUID, ORGANIC, N.O.S.(contains Dichloromethane)

Transport hazard class(es)

6.1

Packing Group

III

Hazchem Code

2X

Packaging Method

3.8.6.1RT7,RT8

Special Precautions for User

Not available

EPG Number

6B3

IERG Number

36

IMDG Marine pollutant

No

Transport in Bulk

Not available

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

S5

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS created: March 2016

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

END OF SDS

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