

# MATERIAL SAFETY DATA SHEET

Ryanfire HP-X



## Section 1 Product and Company Information

Product: **Pressure Exerting Intumescent Sealant**  
Product name: Ryanfire HP-X  
Product application: Water based graphite intumescent fire stopping sealant  
Product size: 310ml cartridges

New Zealand Supplier: **RYANFIRE Products Ltd**  
Address: 11 Ashfield Road  
Wairau Valley  
Auckland, 0627

Telephone: +64 9 443 0362  
**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 16 February 2023

## Section 2 Hazards Identification

Regulation EC 1272/2008

This product is not classified as hazardous according to regulation (EC) 1272/2008 (CLP)

Signal Word: None  
Hazard Statement: None  
Other Hazards: None

## Section 3 Composition / Information on Ingredients

Ingredient	CAS No.	EC No.	REACH Registration No.	Classification According to Reg (EC) 1272/2008 (CLP)	%WW
Carbon	12777-87-6	231-955-3	01-2119514421-54-xxxx	Not Classified	15-25%

## Section 4 First Aid Measures

General: In all cases of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Move outside to fresh air.

Skin Contact: Wash skin thoroughly with water or a recognised skin cleaner. Do not use solvent or thinners. Seek medical attention if irritation persists.

Eye Contact: Contact lenses should be removed. Irrigate copiously with clean fresh water for at least 10 minutes, holding eyelids apart. Seek medical advice.

Ingestion: Wash out mouth with water and provide water to drink. Do not induce vomiting.

### Symptoms and Effects

Skin Contact: Prolonged contact may cause redness, irritation & dry skin.  
Eye Contact: Possible irritation and redness.

Ingestion: No symptoms anticipated. If there is any persistence of discomfort, seek medical advice.  
Inhalation: No symptoms

## Section 5 Fire Fighting Measures

The liquid product is 'non-flammable'.

Extinguishing Media: Foam, CO<sub>2</sub>, powder, water spray/mist.  
Special Hazards: Above 200°C the product rapidly expands.  
Advice for firefighters: Do not allow run off from firefighting to enter drains or water courses.

## Section 6 Accidental Release Measures

Personal precautions & protective equipment: Avoid skin and eye contact. Wear PPE.  
Environmental precautions: Do not allow to enter drains or water courses.  
Method for containment: Contain and collect spillages and place in a suitable container for disposal in accordance with the waste regulations (see section 13).

## Section 7 Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8.  
**The Manual Handling Operations Regulations** may apply to the handling of containers/packages of this product. In order to calculate the weight of any pack size, multiply the volume in litres by the specific gravity value given in section 9. This will give the net weight of the product in kilograms.  
Precautions for safe storage: Keep containers closed when not in use. Never use high pressure to empty. The container is not a pressure vessel. Ensure good housekeeping and regular safe removal of waste materials. Observe label precautions - Store between 5°C and 25°C in a dry well-ventilated place away from sources of heat. Protect from frost. Keep out of reach of children. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

## Section 8 Exposure Controls / Personal Protection

Engineering Measures: Provide adequate ventilation during application and drying.  
Respiratory equipment: If ventilation is insufficient suitable respiratory protective equipment must be worn.  
Skin & Hand protection: Wear suitable protective clothing and plastic or rubber gloves.  
Eye protection: Eye protection designed to protect against liquid splashes should be worn.

Hygiene measures:

When using do not eat drink or smoke. Wash hands before eating, drinking, smoking or using the toilet.

Exposure limits:

Substance	Occupational Exposure Limits		Notations
	8 hr LTEL (1) ppm mgm <sup>-3</sup>	15 min LTEL(2) ppm mgm <sup>-3</sup>	
Respirable silica	0.1		
Carbon (graphite)	Respirable dust 4 Total dust 10		WEL

(1) Long-term exposure limit - 8-hour time weighted average.

(2) Short-term exposure limit - 15 mins time weighted average.

(S) Occupational Exposure Standard (OES).

(M) Maximum Exposure Limit (MEL).

WEL Workplace exposure limit.

## Section 9 Physical and Chemical Properties

<b>Physical state</b>	dark grey viscous paste
<b>pH</b>	7.5 – 8.5
<b>Flash Point</b>	>100°C
<b>Odour</b>	Odourless
<b>Specific Gravity</b>	1.5 – 1.6 @ 20°C
<b>Water Solubility</b>	Miscible with water
<b>Fire Testing</b>	Tested to AS1530:2014 at IANZ/NATA accredited laboratories

## Section 10 Stability and Reactivity

<b>Reactivity</b>	No data available
<b>Chemical stability</b>	Stable under normal temperature and storage conditions
<b>Hazardous reactions</b>	None known
<b>Conditions to avoid</b>	No specific data
<b>Incompatible materials</b>	No specific data
<b>Hazardous decomposition products</b>	Oxides of carbon released under high temperature (>300°C)

## Section 11 Toxicological Information

<b>Toxicity</b>	No evidence of toxicological effects
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain
<b>Skin contact</b>	May irritate skin
<b>Eye Contact</b>	Risk of eye irritation
<b>Sensitisation</b>	Not sensitising
<b>STOT</b>	Not classified

## Section 12 Ecological Information

<b>Toxicity</b>	Not regarded as dangerous for the environment. Not considered toxic to fish
<b>Persistence and degradability</b>	Not biodegradable
<b>Bioaccumulation</b>	Not bio accumulating
<b>Mobility in Soil</b>	Not mobile
<b>Results of PBT/vPvB assesment</b>	Not classified as PBT/vPvB
<b>Other adverse effects</b>	No known significant effects or critical hazards

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**Section 13 Disposal Consideration**

Dispose of this material as special waste in accordance with local or national requirements.

**Section 14 Transport Information**

This product is not covered by international regulation on the transport of dangerous goods.

14.1 UN number: Not applicable

14.2 Proper shipping name: Not applicable

14.3 Transport hazard class: Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Not classed as Marine pollutant.

14.6 Special precautions for users: Not applicable

14.7 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

Control of Substances Hazardous to Health Regulations 1999

Environment Act 1995

Management of Health and Safety at Work Regulations 1999

Personal Protective Equipment at Work Regulations 1992

Special Waste Regulations 1996 as amended

**Health And Safety Executive Guidance Notes**

HS(G)37 An Introduction to Local Exhaust Ventilation

EH40 Occupational Exposure Limits

EH44 Dust: General Principles of Protection

HS(G)53 The Selection, Use and Maintenance of Respiratory Protective Equipment

HS(G)71 Storage of Packaged Dangerous Substances

HS(G)193 COSHH Essentials: easy steps to control chemicals

L23 Manual Handling Guidance on Regulations

**British Standards Publications**

EN420: General Requirements for Gloves

EN166: Personal Eye Protection: Specifications

BS2092: Eye Protection for Industrial and Non-Industrial Users

BS4275: Recommendations for the Selection, Use and Maintenance of Respiratory

**Section 16 Other Information**

Symbols and text of the H phrases in section 2 and 3:

**H412 Harmful to aquatic life with long lasting effects**

Disclaimer

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Issue Date: 14 February 2023

Review Date: 13 February 2028

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