

SAFETY DATA SHEET

OLiVALS VALVE REPAIR SEALANT (VRS)

Revision Date: 8-Jan-2020

Revision Number: 2

1. Identification of the hazardous chemical and of the supplier

Product identifier

Product Name: OLiVALS VALVE REPAIR SEALANT

Other means of identification

Product Code: VRS

Recommended use of the chemical and restriction on use

Recommended Use: Valve Sealant

Supplier details

OLiVALS Sdn Bhd (843103-T)
C-7-1 Block C, Melawati
Corporate Centre,
Jalan Bandar
Melawati, Taman
Melawati, 53100
Kuala Lumpur,
Malaysia

Phone Number: +603 4108 3371
www.olivals.com

For further information, please contact

E-Mail address: enquiry@olivals.com

Emergency phone number

+603 4108 3371

2. Hazard Identification

Classification of the hazardous chemical

Eyes: Possible irritation with repeated or prolonged contact

Inhalation: Exposure to mist or spray may cause coughing, ingestion

Label Elements

Hazard Pictograms



Signal Word

Warning

Hazard Statements

H315 – Causes skin irritation
H319 – Causes serious eye irritation

Precautionary Statements

Prevention

P264 - Wash face, hands and any exposed skin thoroughly after handling P280 - Wear eye protection/face protection

Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P362 - Take off contaminated clothing and wash before reuse
P337 + P313 - If eye irritation persists: Get medical advice/attention

Storage

P403+235 - Store in cool/well-ventilated place

Disposal

P405 - Store locked up
P501 - Dispose of contents/container to in compliance with federal regulations

Other hazards which do not result in classification

None known

3. Composition and information on ingredients of the hazardous chemical

Contains

Substances	Weight, %	Cas Number	OSHA PEL	ACGIH TLV
Graphite	5.0-10.0	7762-42-5	15mppcf	2mg/m ³ TWA
Crystalline Quartz	0.1 - 1	14808-60-7	20mppcf TWA	0.1mg/m ³ TWA

4. First-aid measures

Description of first aid measures

Inhalation	Not Applicable
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists
Skin	Wash with soap and water. Get medical attention if irritation persists
Ingestion	If swallowed, do not induce vomiting. Give plenty glasses of water to drink; never give anything to an unconscious person. Get medical attention

Most important symptoms and effects, both acute and delayed

May cause eye irritation

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically
--------------------	-----------------------

5. Fire-fighting measures

Suitable Extinguishing Media

All Standard firefighting media

Extinguishing media which must not be used for safety reasons

None known

Physicochemical hazards arising from the chemical

Special Exposure Hazards

Decomposition in fire may produce toxic gases

Special protective equipment and precautions for fire fighters

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. See Section 8 for additional information

Environmental precautions

Prevent from entering sewers, waterways, or low areas

Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove

7. Handling and Storage

Precautions for safe handling

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use. Product has a shelf life of 24 months

8. Exposure controls and personal protection

Control parameters

Exposure Limits

Substances	CAS Number	Malaysia OEL	ACGIH TLV-TWA
Graphite	7762-42-5	Not applicable	2mg/m ³ TWA
Crystalline Quartz	14808-60-7	Not applicable	0.1mg/m ³ TWA

Appropriate engineering controls

Engineering Controls Use in a well ventilated area

Individual protection measures, such as personal protective equipment

Respiratory Protection

If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Ammonia respirator with a dust/mist filter.

Hand Protection

Chemical-resistant protective gloves (EN 374) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Nitrile gloves. (>= 0.4 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced. Manufacturer's directions for use should be observed because of great diversity of types.

Skin Protection	Not normally necessary
Eye Protection	Chemical goggles; also wear a face shield if splashing hazard exists
Other Precautions	Eyewash fountains and safety showers must be easily accessible
Environmental Exposure Controls	No information available

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State:	Paste	Color:	Black
Odor:	Mild Fatty	Odor Threshold:	No information available

<u>Property</u>	<u>Values</u>
<u>Remarks / Method</u>	
pH:	
Freezing Point / Range	No data available
Melting Point / Range	No data available
Boiling Point / Range	No data available
Flash Point	400°F (204°C)
Evaporation rate	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	1.03
Water Solubility	No data available
Solubility in other solvent	<1
Partition coefficient: n-octanol/water	No data available
Auto ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

Other information

Dropping Point	> 500°F (260°C)
-----------------------	-----------------

10. Stability and reactivity

Reactivity

Not applicable

Chemical stability

Stable

Possibility of hazardous reactions

Will not occur

Conditions to avoid

None anticipated

Incompatible materials

Strong oxidizers

Hazardous decomposition products

Oxides of nitrogen. Ammonia. Hydrogen cyanide. Carbon monoxide and carbon dioxide

11. Toxicological information

Information on possible routes of exposure

Principle Route of Exposure Eye or skin contact, inhalation

Symptoms related to exposure

Most Important Symptoms/Effects

May cause eye irritation

Numerical measures of toxicity

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Graphite	7762-42-5			
Crystalline Quartz	14808-60-7			

Immediate, delayed and chronic health effects from exposure

Inhalation	May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness
Eye Contact	Causes moderate eye irritation
Skin Contact	Causes moderate skin irritation
Ingestion	May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions

Chronic Effects/Carcinogenicity	No data available to indicate product or components present at greater than 1% are chronic health hazards
--	---

Exposure Levels

No data available

Interactive effects

None known

Data limitations
No data available

Substances	CAS Number	Skin corrosion / irritation
Graphite	7762-42-5	Causes moderate skin irritation
Crystalline Quartz	14808-60-7	Causes moderate skin irritation

Substances	CAS Number	Eye damage/irritation
Graphite	7762-42-5	Causes moderate eye irritation
Crystalline Quartz	14808-60-7	Causes moderate eye irritation

Substances	CAS Number	Skin Sensitization
Graphite	7762-42-5	Did not cause sensitization on laboratory animals (mouse) (similar substances)
Crystalline Quartz	14808-60-7	Did not cause sensitization on laboratory animals (mouse) (similar substances)

Substances	CAS Number	Respiratory Sensitization
Graphite	7762-42-5	No information available
Crystalline Quartz	14808-60-7	No information available

Substances	CAS Number	Mutagenic Effects
Graphite	7762-42-5	In vitro tests did not show mutagenic effects (similar substances)
Crystalline Quartz	14808-60-7	In vitro tests did not show mutagenic effects (similar substances)

Substances	CAS Number	Carcinogenic Effects
Graphite	7762-42-5	No information available
Crystalline Quartz	14808-60-7	No information available

Substances	CAS Number	Reproductive toxicity
Graphite	7762-42-5	No information available
Crystalline Quartz	14808-60-7	No information available

Substances	CAS Number	STOT - single exposure
Graphite	7762-42-5	No information available
Crystalline Quartz	14808-60-7	No information available

Substances	CAS Number	STOT - repeated exposure
Graphite	7762-42-5	No information available
Crystalline Quartz	14808-60-7	No information available

Substances	CAS Number	Aspiration hazard
Graphite	7762-42-5	No information available
Crystalline Quartz	14808-60-7	No information available

12. Ecological information

Ecotoxicity

12.1 Toxicity

Ecotoxicity Effects

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Graphite	7762-42-5	No information available	No information available	No information available	No information available
Crystalline Quartz	14808-60-7	No information available	No information available	No information available	No information available

Persistence and degradability

Not readily biodegradable

Substances	CAS Number	Persistence and Degradability
Graphite	7762-42-5	No information available
Crystalline Quartz	14808-60-7	No information available

Bioaccumulative potential

Substances	CAS Number	Log Pow
Graphite	7762-42-5	No information available
Crystalline Quartz	14808-60-7	No information available

Mobility in soil

No information available

Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

13. Disposal considerations

Disposal Method

Disposal Method	Disposal should be made in accordance with federal, state, and local regulations
Contaminated Packaging	Follow all applicable national or local regulations

14. Transportation information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name:	Not dangerous goods
DOT Hazard Class:	
UN/NA Number:	

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name:	No information available
--------------------	--------------------------

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:	No information available
UN Number:	
Hazard Class:	

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name:	Not dangerous goods
-------------------------	---------------------

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Not dangerous goods
--------------------------	---------------------

15. Regulatory information

International agreement

Montreal Protocol - Ozone Depleting Substances:	Does not apply
Stokholm Convention - Persistent Organic Pollutants:	Does not apply
Rotterdam Convention - Prior Informed Consent:	Does not apply
Basel Convention - Hazardous Waste:	Does not apply

Safety, health, and environmental regulations specific for the hazardous chemical

Malaysia Occupation Safety and Health - Prohibition of Use Substances:	Does not apply
Malaysia Substances Requiring Medical Surveillance:	Does not apply
Malaysia Environmentally Hazardous Substances (EHS):	One or more components listed

16. Other information

Revision Date:
Revision Note

Key literature references and sources for data
www.ChemADVISOR.com/

Key or legend to abbreviations and acronyms

bw – body weight

CAS – Chemical Abstracts Service

CLP – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification, Labelling and Packaging of substances and mixtures

EC – European Commission

EC10 – Effective Concentration 10%

EC50 – Effective Concentration 50%

EEC – European Economic Community

ErC50 – Effective Concentration growth rate 50%

IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 – Lethal Concentration 50%

LD50 – Lethal Dose 50%

LL0 – Lethal Loading 0%

LL50 – Lethal Loading 50%

MARPOL – International Convention for the Prevention of Pollution from Ships

mg/kg – milligram/kilogram

mg/L – milligram/liter

NIOSH – National Institute for Occupational Safety and Health

NOEC – No Observed Effect Concentration

NTP – National Toxicology Program

OEL – Occupational Exposure Limit

PBT – Persistent Bioaccumulative and Toxic

PC – Chemical Product category

PEL – Permissible Exposure Limit

ppm – parts per million

PROC – Process category

REACH – REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL – Short Term Exposure Limit

Disclaimer Statement

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user

End of Safety Data Sheet