

Section 1. Identification: Product identifier and chemical identity

1.1 Product Identifier

Product Name: BIO SLIDE H2O
Product Numbers: 32304, 32305, 32301, 32302
Synonyms: Not applicable
SDS Number: Not applicable
Issue Date: 7 November 2017
Version Number: NZ1.1
Revision Date: 19 June 2019

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: Hydrocarbon-Based Concrete Form Release Agent
Uses advised against: Other uses are not recommended unless an assessment is completed, prior to commencement of that use, which demonstrates that the use will be controlled.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Corrosion Technologies
2638 National Drive, Garland, TX 75041
972-271-7361
972-278-9721
Telephone:
Fax:
Email: info@corrosionx.com
Website: www.corrosionx.com
Distributor in New Zealand: Corrosion Control NZ
48 Riverside drive
Whangarei 0112
Northland
New Zealand
Tel: +64 9-438-88-00
Email: tom@corrosionx.org

1.4 Emergency Telephone Number

Poisons Information Centre

NZ Poison emergency no: 0800 POISON (0800 764 766)
For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), 24 hour emergency telephone, call CHEMTREC® at 1-800-424-9300 (US, Canada, Puerto Rico); 1-703-527-3887 (elsewhere).

Section 2. Hazard(s) 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, according to the Model Work Health and Safety Regulations, (Safe Work Australia, December 2011) applies. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

Hazard Summary

Health Hazard(s)	Category 1
Aspiration Hazard	None
Physical Hazard(s)	None
Environmental Hazard(s)	None
Specific Hazard(s)	None
Main symptoms:	May cause irritation of the mouth, throat and gastrointestinal tract with symptoms including upset stomach and diarrhoea. May cause irritation to the respiratory system with symptoms including coughing and sneezing. May cause transient eye irritation with symptoms including lacrimation (tears) and a burning sensation.

2.2 Label Elements

The label elements below were prepared in accordance with the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals (Safe Work Australia, December 2011).

Signal Word: DANGER



Hazard Pictograms:

Hazard Statements

Precautionary Statements : May be fatal if swallowed and enters airways
Store locked up. If medical advice is needed, have product container or label at hand. If swallowed: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. Dispose of contents and container in accordance with applicable regulations. Keep out of reach of children.

Supplemental label information: Contains petroleum oil.

2.3 Other hazards

None known.

Section 3. Composition and information on ingredients

This material is a mixture.

Chemical Name	EC Number	REACH Reg. No.	CAS Number	Percent by Wt.	CLP Classification
Petroleum oil	Not Est.	Not Est.	Trade Secret	>90	Asp. 1; H304

Section 4. First-aid measures

4.1 Description of First Aid Measures

General Advice: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

Skin Contact: Remove contaminated clothing. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice.

Eye Contact: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Ingestion: Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. Immediately call a POISON CENTER or physician.

4.2 Most Important Symptoms and Effects both Acute and Delayed

Symptoms: May cause nausea, vomiting and diarrhoea. Inhaled vomitus can cause pulmonary injury and death.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician: Do NOT induce vomiting. Provide general supportive measures and treat symptomatically. Keep person under observation. Symptoms may be delayed.

Section 5. Fire-fighting measures

General Fire Hazards: Move containers from fire area if this can be done without risk.

5.1 Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances / surrounding environment.

Suitable extinguishing media: Carbon Dioxide, Dry Chemical, Water Spray and Regular Foam

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

5.2 Special Hazards Arising from the Substance or Mixture: Combustion can generate smoke, carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, mercaptans, sulfides, including hydrogen sulfide, phosphorus oxides and other phosphorus containing compounds and aldehydes. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released.

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Special firefighting procedures: Evacuate area and fight fire from a safe distance. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow, if possible. Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire.

5.4 Hazchem Code: 2[Z]

2 Fine Water Spray.

Z There is NO danger of violent reaction or explosion; breathing apparatus must be worn and the spillage must be contained.

Section 6. Accidental release measures

6.1 Personal Precautions / Protective Equipment / Emergency Procedures

For non-emergency personnel: Avoid contact with spilled material. Immediately contact emergency personnel. Keep unnecessary people away.

For emergency responders: Caution should be exercised regarding personnel safety and exposure to the released product. Avoid contact with spilled material. Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental Precautions: Avoid release to the environment. If product is released to the environment, take immediate steps to stop and contain release if it is safe to do so. Isolate hazard area and deny entry. See section 12, Ecological information.

6.3 Methods and materials for containment and cleaning up

For small spills: do not touch or walk through spilled material. Stop leak when safe to do so. Cover drains and prevent entry into waterways or sewers. Use clean, tools to collect absorbed material. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Contact appropriate authorities and local experts for further advice.

For land spills: do not touch or walk through spilled material. Stop leak when safe to do so. Prevent entry into waterways or sewers. Never return spills in original containers for re-use. Contact appropriate authorities and local experts for further advice.

For large spills, dike far ahead of liquid spill for later disposal. Do not touch or walk through spilled material. Stop leak when safe to do so. Cover drains and prevent entry into waterways or sewers. Recover using pumps or suitable, inert absorbent and dispose of in accordance with applicable regulations.

For water spills: stop leak when safe to do so. Warn surrounding and downstream vessels of potential hazards or to evacuate area. Contain spill with booms and use as a barrier to protect shorelines. Begin recovery of product as soon as possible. Never return spills in original containers for re-use. Contact appropriate authorities and local experts for further advice.

6.4 Reference to other sections: See Section 8, Exposure Controls/Personal Protection and Section 13, Disposal Considerations.

Section 7. Handling and storage

7.1 Precautions for Safe Handling

Protective measures: Read label before use. (P103) Observe good industrial hygiene practices. Do not to eat, drink and smoke in work areas, wash hands after use and remove contaminated clothing and protective equipment before entering eating areas. Follow all SDS/label precautions.

Measures to prevent fire: Bonding and grounding may be insufficient to eliminate the hazard from static accumulation.

Maximum Handling Temperature: 60 °C

7.2 Conditions for Safe Storage, Including any Incompatibilities

Storage conditions to avoid: Store in original closed container. Store away from incompatible materials (see Section 10: Stability and Reactivity). Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

Maximum Storage Temperature: 45 °C

7.3 Specific End Use(s): End uses are listed in an attached exposure scenario when one is required.

Section 8. Exposure controls and personal protection

8.1 Control Parameters

Occupational exposure limit values: No occupational exposure limits noted for the ingredient(s).

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

Recommended monitoring procedures: None known.

8.2 Exposure Controls

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) 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 at an acceptable level. Eye wash facilities and emergency shower should be available when handling this product.

Individual protection measures, such as personal protective equipment

General information: None required under normal conditions of use.

Eye / Face Protection: None required under normal conditions of use.

Respiratory Protection: None required under normal use conditions.

Skin Protection

Hand Protection: None required under normal conditions of use.

Other Protection: None required under normal conditions of use.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Thermal hazards: Not applicable.

Environmental exposure controls: Minimize contact with soils to prevent runoff into waterways. Prevent entry into waterways.

Environmental manager must be informed of all major releases.

Section 9. Physical and chemical properties

9.1 Information Basic Physical and Chemical Properties

Appearance:	Transparent	Volatile by volume (%):	0
Physical State:	Liquid	Non-volatile by Volume (%):	100
Form:	Non-viscous	Solubility(ies)	
Colour:	Dark Amber	Solubility (water):	Emulsifiable
Odour:	Hydrocarbon	Solubility (other):	Not Established
Odour threshold:	Not available	n-Octanol/Water Partition Coefficient: (log Kow)	
pH:	Not applicable	Petroleum Distillates	>=4
Melting/Freezing Point:	Not established	Autoignition Temperature:	Not established
Initial Boiling Point/ and Boiling Range:	>400°F / 200°C	Decomposition Temperature:	Not established
Flash Point:	177°C / 350°F	Viscosity, cSt @ 40°C:	<20.5
Method:	Pensky-Martens Closed Cup	Explosive properties:	Not established
Evaporation Rate (BuAc= 1):	<0.01	Oxidising properties:	Not established
Flammability (solid, gas):	Not applicable		
Upper/Lower flammability or explosive limits		9.2 Other Information	
Flammability Limit, Lower vol %:	Not established	Specific Gravity @15.6°C:	0.895
Flammability Limit, Upper vol %:	Not established	Chemical family:	Hydrocarbon
Vapour Density (Air=1):	>1	Dissociation constant:	Not applicable
Vapour Pressure, mmHg @23°C:	>1	Dielectric Strength (KV):	Not applicable
Relative Density @15.6°C (pounds/gallon)	7.4		

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: Stable under normal conditions.

10.3 Possibility of Hazardous Reactions: Will not occur.

10.4 Conditions to Avoid: None known.

10.5 Incompatible Materials: Bases, acids, amines and oxidising agents.

10.6 Hazardous Decomposition Products: Does not decompose when used for intended uses. No known hazardous decomposition products.

Section 11. Toxicological information

General information

Exposure to this material may cause adverse effects or damage to the following organs or organ systems: lungs.

Information on likely routes of exposure

Ingestion: May cause irritation of the mouth, throat and gastrointestinal tract. Symptoms may include upset stomach and diarrhoea. Aspiration can result in severe injury to the lungs and death.

Inhalation: Under normal conditions, inhalation is not expected to be a problem. However, respiratory tract irritation may occur if exposed to mists or heated vapors.

Skin contact: Not anticipated to cause skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. May cause allergic contact dermatitis in sensitised individuals. Symptoms may include redness, oedema, drying and cracking of the skin.

Eye contact: May cause transient irritation, lacrimation (tears) and a burning sensation in the eyes.

11.1 Information on Toxicological Effects

Acute Toxicity

Product

Acute Toxicity - Oral: Not classified: conclusive data do not meet classification criteria.

Acute Toxicity - Dermal: Not classified: conclusive data do not meet classification criteria.

Acute Toxicity – Inhalation: Not classified: conclusive data do not meet classification criteria.

Skin Corrosion/Irritation: Classification: Not irritating (Read across); Rabbit.

Serious Eye Damage/Eye Irritation: Classification: Irritating (Read across); Rabbit.

Respiratory sensitisation: Due to partial or complete lack of data the classification is not possible.

Skin sensitisation: Not classified: conclusive data do not meet classification criteria.

Germ cell mutagenicity: Not classified: conclusive data do not meet classification criteria.

Carcinogenicity: Contains mineral oils which are severely refined and not considered carcinogenic. Demonstrated to contain less than 3% extractables by the IP 346 test. Not classified.

Reproductive toxicity: Not classified: conclusive data do not meet classification criteria.

Developmental effects: Not classified: conclusive data do not meet classification criteria.

Fertility: Not classified: conclusive data do not meet classification criteria.

Specific Target Organ Toxicity - Single Exposure: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

Specific Target organ toxicity - Repeated Exposure: Not classified: conclusive data do not meet classification criteria.

Aspiration Hazard: Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Petroleum oil

Acute Toxicity – Oral: LD50 (Rat): > 5,000 mg/kg (Read across) Not classified: conclusive data do not meet classification criteria.

Acute Toxicity – Dermal: LD50 (Rabbit): > 2,000 mg/kg (Read across) Not classified: conclusive data do not meet classification criteria.

Acute Toxicity – Inhalation: LC50 (Rat): >2000 mg/L (Read across) Not classified: conclusive data do not meet classification criteria.

Skin Corrosion/Irritation: Classification: Not irritating (Read across); Rabbit.

Serious Eye Damage/Eye Irritation: Classification: Irritating (Read across): Rabbit

Respiratory sensitisation: Due to partial or complete lack of data the classification is not possible.

Skin sensitisation: Not classified: conclusive data do not meet classification criteria.

Germ cell mutagenicity: Not classified: conclusive data do not meet classification criteria.

Carcinogenicity: Contains mineral oils which are severely refined and not considered carcinogenic. Demonstrated to contain less than 3% extractables by the IP 346 test. Not classified

Reproductive toxicity: >2,000 mg/kg dermal. Not classified: conclusive data do not meet classification criteria.

Developmental effects: > 150 mg/kg/day, Read across from supporting substance Result: NOAEL

Fertility: >893 mg/kg/day, Read across from supporting substance Result: NOAEL

Specific Target Organ Toxicity - Single Exposure: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

Specific Target organ toxicity - Repeated Exposure: Not classified: conclusive data do not meet classification criteria.

Aspiration Hazard: Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Section 12. Ecological information

12.1 Toxicity

Product

Fish: Not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water.

Toxicity to Terrestrial Plants: If applied to leaves, may kill grasses and small plants by interfering with transpiration and respiration.

Toxicity to Above-Ground Organisms: May be moderately toxic to amphibians by preventing dermal respiration. May cause gastrointestinal distress in birds and mammals through ingestion.

Petroleum oil

Fish: Not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water.

Aquatic Invertebrates: No data available.

Toxicity to Aquatic Plants: No data available.

Toxicity to soil dwelling organisms: No data available.

Sediment Toxicity: No data available.

Toxicity to Terrestrial Plants: If applied to leaves, may kill grasses and small plants by interfering with transpiration and respiration.

Toxicity to Above-Ground Organisms: May be moderately toxic to amphibians by preventing dermal respiration. May cause gastrointestinal distress in birds and mammals through ingestion.

Toxicity to microorganisms: No data available

12.2 Persistence and Degradability

Product

Biodegradation: Not readily biodegradable. Biodegradation is possible with 100 to 120 days in aerobic environments at temperatures above 21 °C.

BOD/COD Ratio: No data available

Hydrolysis Half-life: No data available

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in soil: Not established

12.5 Results of PBT and vPvB Assessment: Does not contain any substances that are assessed to be a PBT or a vPvB

12.6 Other Adverse Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

Petroleum oil

Biodegradation: Not readily biodegradable. Biodegradation is possible with 100 to 120 days in aerobic environments at temperatures above 21 °C.

BOD/COD Ratio: No data available

Hydrolysis Half-life: No data available

12.3 Bioaccumulative Potential: No data available.

Bioconcentration Factor (BCF): No data available

Partition Coefficient n-octanol / water (log Kow): >= 4

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB Assessment: Not considered to be persistent, bioaccumulative nor toxic (PBT) or very bioaccumulative (vPvB).

12.6 Other Adverse Effects: No data available

Section 13. Disposal considerations

13.1 Waste Treatment Methods

13.1.1 Product / Packaging Disposal

Product Wastes from Residues/ Unused Product: Recycle waste or used oils whenever possible in accordance with national and regional provisions. Incineration in an approved facility is recommended unless directed otherwise by appropriate authority.

Treatment, storage, transportation and disposal must be in accordance with applicable National, State and Territorial regulations.

Contaminated Packaging: Empty remaining contents. Since emptied containers retain product residue, follow label warnings even after container is emptied. Container packaging may exhibit hazards. Empty containers should be taken for local recycling, recovery or waste disposal.

13.1.2 Waste treatment – relevant information: Recycle waste or used oils whenever possible in accordance with National, State and Territorial provisions. Incineration in an approved facility is recommended unless directed otherwise by appropriate authority.

13.1.3 Sewage disposal – relevant information: Waste should not be disposed of by release to sewers.

13.1.4 Other disposal recommendations: Final decisions on the appropriate waste management method, in line with National, State and Territorial provisions and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

Section 14. Transport information

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed.

Australian Dangerous Goods Code (ADG) - Road/Rail

14.3. Transport hazard class(es) Not regulated as dangerous goods.

Hazchem Code: 2[Z]

International Air Transport Association (IATA) – Air Transport

14.3. Transport hazard class(es) Not regulated as dangerous goods.

International Maritime Dangerous Goods Code (IMDG) – Marine Transport

14.3. Transport hazard class(es) Not regulated as dangerous goods.

14.5. Environmental hazards: Marine Pollutant: No

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code: Not intended to be transported in bulk.

Section 15. Regulatory information

15.1 Safety, Health and Environmental Regulations/Legislation for the Substance or Mixture

Substances that deplete the ozone layer None

Persistent Organic Pollutants: None

Australia

This material is considered hazardous according to Australia Model Work Health and Safety Regulations.

This material is not regulated according to Australian Dangerous Goods Code.

Australian Inventory of Chemical Substances (AICS) Listing: The chemical components contained within this product are listed on the Australian Inventory of Chemical Substances and are in compliance with the requirements of the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

Poison Schedule: A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

New Zealand

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.

HSNO Approval: Construction Products (Subsidiary Hazard) Group Standard 2017 - HSR002544

HSNO Classification: 6.1E

Not classified as a Dangerous Good according to NZS5433:2007 Transport of Dangerous Goods on Land.

NZIoC (New Zealand Inventory of Chemicals): All components are listed on the NZIoC inventory or are exempt.

Section 16. Other information

Prepared by: Corrosion Technologies, Technical Services Department

This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

National Fire Protection Association (704) Health: 1 Flammability: 1 Reactivity: 0 Other:

Disclaimer: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Laws and Regulations. Any questions with regards to information contained herein should be referred to U. S. Corrosion Technologies, LLC (972) 271-7361.