

## BIND-R ADJUVANT

Infosafe No.: X01EC  
Version No.: 2.0  
ISSUED Date : 25/08/2021  
ISSUED by: DKSH AGRISOLUTIONS NEW  
ZEALAND LIMITED

### Section 1: Identification

**Product Identifier**

BIND-R ADJUVANT

**Product Code**

140010664

**Company Name**

DKSH AGRISOLUTIONS NEW ZEALAND LIMITED

**Address**

119 Carbine Road, Mt Wellington, Auckland 1060  
NEW ZEALAND

**Telephone/Fax Number**

Telephone: +64 9 2593777

**Emergency Phone Number**

0800 154 666

**Email**

regaffairs.anz@dksh.com

**Recommended uses and any restrictions on use or supply**

Industrial application.

### Section 2: Hazard identification

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, New Zealand.

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2020 Transport of Dangerous Goods on Land.

6.1D (Inhalation – vapours, dusts or mists) - Substance that is acutely toxic

9.1B Substance that is ecotoxic in the aquatic environment

**Signal Word (s)**

WARNING

**Hazard Statement (s)**

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

**Pictogram (s)**

Exclamation mark, Environment



#### Precautionary Statement – Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

#### Precautionary Statement – Response

P391 Collect spillage.

P312 Call a POISON CENTER/doctor if you feel unwell.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### Precautionary Statement – Disposal

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

### Section 3: Composition/information on ingredients

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#### Chemical Characterization

Emulsion

#### Ingredients

Name	CAS	Proportion
Carboxylated styrene-butadiene copolymer		60-90 %
Alcohols, C9-11, ethoxylated propoxylated	103818-93-5	1-<10 %
2-Methyl-4-isothiazolin-3-one	2682-20-4	<0.1 %
1,2-Benzisothiazolin-3-one	2634-33-5	<0.1 %
Ingredients determined not to be hazardous		Balance

### Section 4: First-aid measures

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#### 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 medical attention.

#### Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

#### Eye

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. If symptoms develop and/or persist 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. (0800 764 766)

### Section 5: Fire-fighting measures

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#### Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam, water mist or water spray. Alcohol resistant foam is preferred. If not available normal foam can be used.

#### Unsuitable Extinguishing Media

Do not use water jet.

### **Hazards from Combustion Products**

Non combustible material.

### **Specific hazards arising from the chemical**

This product is non combustible.

### **Decomposition Temperature**

Not available

### **Precautions in connection with fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

## **Section 6: Accidental release measures**

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### **Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the 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.

## **Section 7: Handling and storage**

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### **Precautions for Safe Handling**

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

## **Section 8: Exposure controls/personal protection**

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### **Occupational Exposure Limits (OEL)**

No Exposure Limit Established

### **Biological Limit Values**

No biological limits allocated.

### **Appropriate Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist/dust 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 full face shield should be used. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.

### **Hand Protection**

Wear gloves of impervious material such as PVC. 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.

## Section 9: Physical and chemical properties

Properties	Description	Properties	Description
Form	Emulsion	Appearance	White emulsion
Colour	White	Odour	Not available
Decomposition Temperature	Not available	Melting Point	Not available
Freezing Point	<0 °C	Boiling Point	Not available
Solubility in Water	Miscible	Specific Gravity	1.01 (20 °C) (approximate)
pH	7-9	Vapour Pressure	Not available
Vapour Density (Air=1)	Not available	Evaporation Rate	Not available
Odour Threshold	Not available	Viscosity	Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity
Volatile Component	Not available	Partition Coefficient: n-octanol/water	Not available
Flash Point	Not applicable	Flammability	Non combustible material.
Auto-Ignition Temperature	Not available	Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable	Explosion Properties	Not available
Oxidising Properties	Not available	Kinematic Viscosity	Not available
Dynamic Viscosity	Not available		

## Section 10: Stability and reactivity

### Reactivity

Refer to Section 10: Possibility of hazardous reactions

### Chemical Stability

Stable under normal conditions of storage and handling.

### Conditions to Avoid

Extremes of temperature and direct sunlight.

### Incompatible Materials

Not available

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes.

### Possibility of hazardous reactions

Excessive free metallic ions may cause coagulation. Will coagulate under low pH conditions.

### Hazardous Polymerization

Will not occur.

## Section 11: Toxicological information

### Toxicology Information

Toxicity data for material given below.

**Acute Toxicity - Oral**

LD50 (rat): >5000 mg/kg

**Acute Toxicity - Inhalation**

LC50 (rat): 4.73 mg/l/4h

**Acute Toxicity - Dermal**

LD50 (rabbit): >2000 mg/kg

**Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Inhalation**

Harmful if inhaled. Inhalation of product dust/vapours can cause irritation of the nose, throat and respiratory system.

Breathing in high concentrations of vapours or aerosols of this material may cause nausea and irritation of the nose, throat and respiratory tract. Respiratory symptoms associated with pre-existing lung disorders (e.g. asthma-like conditions) may be aggravated by exposure to this material.

**Skin**

May be irritating to skin. The symptoms may include redness, itching and swelling.

**Eye**

May be irritating to eyes. The symptoms may include redness, itching and tearing.

**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.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

Styrene-butadiene copolymer is listed as a Group 3: Not classifiable as to carcinogenicity 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**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**Section 12: Ecological information**

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**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

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

#### **Acute Toxicity - Fish**

LC50 (Guppy): 12.7 mg/l/96h

#### **Acute Toxicity - Daphnia**

EC50 (Daphnia): 5.2 mg/l/24h

#### **Hazardous to the Ozone Layer**

This product is not expected to deplete the ozone layer.

## **Section 13: Disposal considerations**

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### **Disposal Considerations**

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

#### **Product Disposal:**

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. The product should be rendered non-hazardous before being sent to a licensed landfill facility.

Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed. Do not dispose into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Notice 2017. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

#### **Container Disposal:**

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

## **Section 14: Transport information**

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### **Transport Information**

This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods must not be loaded in the same freight container or on the same vehicle with:

Class 1: Explosives

Class 9 dangerous goods that contain organic matter must not be loaded in the same bulk container or tankwagon with dangerous goods of Division 5.1 unless the Class 9 and Division 5.1 dangerous goods are in separate compartments of a bulk container or tankwagon. Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices. Segregation devices may be used to segregate dangerous goods of Class 9 when the nature of those dangerous goods requires them to be segregated from dangerous goods of Class 3, 4, 5, 6 or 8 or from food items.

#### **UN Number**

3082

#### **Proper Shipping Name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Contains Alcohols, C9-11, ethoxylated propoxylated)

#### **Hazard Class**

9

#### **Packing Group**

III

#### **Hazchem Code**

•3Z

#### **UN Number (Air Transport, ICAO)**

3082

**IATA/ICAO Proper Shipping Name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Contains Alcohols, C9-11, ethoxylated propoxylated)

**IATA/ICAO Hazard Class**

9

**IATA/ICAO Packing Group**

III

**IATA/ICAO Symbol**

Miscellaneous Dangerous Goods

**IMDG UN Number**

3082

**IMDG Proper Shipping Name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Contains Alcohols, C9-11, ethoxylated propoxylated)(Alcohols, C9-11, ethoxylated propoxylated) MARINE POLLUTANT

**IMDG Hazard Class**

9

**IMDG Packing Group**

III

**IMDG Marine pollutant**

Yes

**IMDG EMS**

F-A,S-F

**Transport in Bulk**

Not available

**Special Precautions for User**

Not available

## Section 15: Regulatory information

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**Regulatory Information**

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017, New Zealand. Group Standard: Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2017.

**HSNO Approval Number**

HSR002503

**New Zealand (NZIoC)**

All components of this product are listed on the Inventory or exempted.

**Tolerable exposure limit (TEL)**

Not available

**Environmental exposure limit (EEL)**

Not available

**Certified Handler**

Not available

**Tracking**

Not required

**Controlled Substance Licence Requirements**

Not available

**Montreal Protocol**

Not Listed

**Stockholm Convention**

Not Listed

## Rotterdam Convention

Not Listed

## Agricultural Compounds, including Veterinary Medicines (ACVM)

Not available

## Section 16: Other information

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### Date of preparation or last revision of SDS

SDS Reviewed: August 2021, Supersedes: July 2016

### Literature References

Hazardous Substances and New Organisms Act 1996.

Health and Safety at Work (Hazardous Substances) Regulations 2017.

Workplace Exposure Standards and Biological Exposure Indices.

Agricultural Compounds and Veterinary Medicines Act 1997.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Transport of Dangerous goods on land NZS 5433.

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Assigning a hazardous substance to a group standard.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

### Contact Person/Point

**IMPORTANT ADVICE:** An SDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. The information contained in this SDS is believed to be correct but is not guaranteed. Prior to using the product(s) referred to in this SDS, each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the supplier listed in section 1 of the SDS. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. DKSH Agrisolutions Pty Ltd does not accept any other liability either directly or indirectly for any losses suffered in connection with the use and application of the product whether or not in accordance with any advice, specification, recommendation or information given by it. DKSH Agrisolutions Pty Ltd **SDS WARNING:** DKSH Agrisolutions Pty Ltd is aware that third parties are distributing documents purporting to be SDSs (or the like) in relation to DKSH Agrisolutions Pty Ltd products without any authorisation from DKSH Agrisolutions Pty Ltd ("Unauthorised SDS"). DKSH Agrisolutions Pty Ltd accepts no responsibility for the distribution of an Unauthorised SDS by a third party or for any information contained therein. All DKSH Agrisolutions Pty Ltd products must be used in accordance with the corresponding original and current SDS authorised by DKSH Agrisolutions Pty Ltd for use with that DKSH Agrisolutions Pty Ltd product ("Authorised SDS"). In the event that an SDS in relation to an DKSH Agrisolutions Pty Ltd product has expired and is not marked as obsolete, please contact DKSH Agrisolutions Pty Ltd immediately to obtain a current SDS. Further, if an DKSH Agrisolutions Pty Ltd product is used without the Authorised SDS and/or with an Unauthorised SDS, or an expired SDS which is not marked obsolete, DKSH Agrisolutions Pty Ltd hereby excludes absolutely and to the maximum extent permitted by law all liability whatsoever and howsoever arising under contract, tort (including negligence) or otherwise for all loss and/or damage including, but not limited to, for personal injury, sickness or death, damage to real property and/or chattels and all indirect and consequential loss (including loss of profits).

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