

# SAFETY DATA SHEET

### **RESPOND® 5**

# **Section 1. Identification**

Product identifier : RESPOND® 5

SDS # : 633

Product type : Liquid.

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

**Identified uses** 

Wetting and penetrating agent.

Uses advised against

Not available.

Supplier's details : LOVELAND PRODUCTS, INC.

P.O. Box 1286

Greeley, CO 80632-1286

Telephone no. : 1-888-574-2878 (Customer Service)

**Email** : retail-SDS2@nutrien.com

Emergency telephone number (with hours of

operation)

: CHEMTREC: 1-800-424-9300 (24 hrs)

Medical Emergencies: 1-866-944-8565 (24 hrs)

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

#### **GHS label elements**

Hazard pictograms :



Signal word : Danger

**Hazard statements** : Causes skin irritation.

Causes serious eye damage.

**Precautionary statements** 

General : Read label before use. Keep out of reach of children. If medical advice is needed, have

product container or label at hand.

**Prevention**: Wear protective gloves. Wear eye or face protection. Wash thoroughly after handling.

Response: Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise : None known.

classified

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# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
alcohol ethoxylate	Proprietary	Proprietary

The specific chemical identity and / or exact percentage (concentration) of the composition has been withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact** 

: CORROSIVE. Begin eye irrigation immediately. All eye exposures require medical evaluation following decontamination. Immediately rinse eyes with large quantities of water or saline for a minimum 30 minutes, longer irrigation time is preferred if possible. If possible, remove contact lenses being careful not to cause additional eye damage. If the initial water supply is insufficient, keep the affected area wet with a moist cloth and transfer the person to the nearest place where rinsing can be continued for the recommended length of time. Call an ambulance for transport to hospital. Continue eye irrigation during transport. For additional advice call the medical emergency number on this safety data sheet or your poison center or doctor.

Inhalation

: Remove person to fresh air. No known significant effects. Seek medical attention for any signs of wheezing and/or breathing difficulties. For additional advice call the medical emergency number on this SDS or your poison center or medical provider.

**Skin contact** 

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contactInhalationCorrosive to eyes. Causes serious eye damage.No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation.

Ingestion
 May be harmful if swallowed. Over-exposure by ingestion is unlikely under normal working conditions.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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# Section 4. First aid measures

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** 

Improved outcome requires prolonged rinsing or soaking with water in order to extract corrosive ions that have penetrated through the stratum corneum. Expert opinion indicates an extended duration of rinsing is required to remove corrosive chemicals - 60 minutes for strong alkalis, and 30 minutes for other corrosive substances. Water should be maintained at a comfortable temperature. It may be necessary to delay transport to emergency care facilities in order to to ensure 30 or 60 minutes of rinsing time. However, transporting the patient may be necessary depending on the condition of the patient or the availability of a water supply. If transport is necessary, rinsing the affected area should continue, if possible, during transport.

**Protection of first-aiders** 

No action shall be taken involving any personal risk or without suitable training. Decontamination measures may be necessary. Personnel and equipment must be checked and decontaminated prior to leaving the area.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

**Unsuitable extinguishing** media

: Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides

**Special protective actions** for fire-fighters

: No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Contain and collect the water used to fight the fire for later treatment and

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

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### Section 6. Accidental release measures

### **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Large spill

: Stop leak if without risk. Approach release from upwind. Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle to process, if possible.

or

Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### **Precautions for safe handling**

#### **Protective measures**

: Read label before use. Apply this product only as specified on the label. Do not handle until all safety precautions have been read and understood. Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Do not breathe vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits

None.

#### **Biological exposure indices**

No exposure indices known.

### **Appropriate engineering** controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Contact your personal protective equipment supplier to verify the compatibility of the equipment for the intended purpose.

**General information** Do not handle until all safety precautions have been read and understood.

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# Section 8. Exposure controls/personal protection

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

For U.S. work sites where respiratory protection is required, ensure that a respiratory protection program meeting 29 CFR 1910.134 requirements is in place.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state : Liquid. [Clear.]

Color : Water white to light amber.

Odor threshold : Organic.

Not available.

pH : 3 to 5

Melting point/freezing point : Not available.

Boiling point, initial boiling : Not available.

point, and boiling range

Flash point : Closed cup: >95°C (>203°F)

Flammability : Non-flammable.

Lower and upper explosion : Not applicable.

limit/flammability limit

Vapor pressure : Not available.

Relative vapor density : Not available.

Relative density : 1.025 to 1.035

Bulk density : 8.55 to 8.64 lb/gal

Solubility(ies) :

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# Section 9. Physical and chemical properties and safety characteristics

Media	Result
cold water hot water	Easily soluble Easily soluble

Solubility in water : Soluble. Miscible with water Yes.

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature** : Not applicable. : Not available. **Decomposition temperature Viscosity** : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

# Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

**Chemical stability** : The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Excessive heat. Keep away from incompatible materials.

Incompatible materials Strong oxidizers and strong alkalis.

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **Section 11. Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
alcohol ethoxylate	LD50 Oral	Rat	1378 mg/kg	-

**Conclusion/Summary** 

: May be harmful if swallowed.

**Irritation/Corrosion** 

Not available.

**Conclusion/Summary** 

Skin : Causes skin irritation.

**Eyes** : Causes serious eye damage.

Respiratory : No known significant effects or critical hazards.

**Sensitization** 

Not available.

Conclusion/Summary

Skin : No known significant effects or critical hazards. Respiratory : No known significant effects or critical hazards.

**Mutagenicity** 

Not available.

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# **Section 11. Toxicological information**

**Conclusion/Summary**: No known significant effects or critical hazards.

**Carcinogenicity** 

Not available.

**Conclusion/Summary**: No known significant effects or critical hazards.

**Reproductive toxicity** 

Not available.

**Conclusion/Summary**: No known significant effects or critical hazards.

Teratogenicity

Not available.

**Conclusion/Summary** : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on the likely

routes of exposure

: Dermal contact. Eye contact. Ingestion.

Potential acute health effects

Eye contactInhalationCorrosive to eyes. Causes serious eye damage.No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation.

Ingestion : May be harmful if swallowed. Over-exposure by ingestion is unlikely under normal

working conditions.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : See above.

effects

Potential delayed effects: See below.

Long term exposure

Potential immediate : See above.

effects

Potential delayed effects : See below.

Potential chronic health effects

Not available.

**Conclusion/Summary**: No known significant effects or critical hazards.

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# **Section 11. Toxicological information**

General

: No known significant effects or critical hazards.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Reproductive toxicity

: No known significant effects or critical hazards.

### **Numerical measures of toxicity**

**Acute toxicity estimates** 

N/A

Other information : Not available.

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
alcohol ethoxylate	Acute EC50 5.36 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 2686 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8500 μg/l Fresh water	Fish - Pimephales promelas	96 hours

#### **Conclusion/Summary**

: May be harmful to the environment if released in large quantities. Apply this product only as specified on the label.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Disposal methods**

: Follow disposal instructions on label. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Triple rinse containers with water and add the rinse water to the spray tank. Do not reuse containers for any purpose. Disposal should be in accordance with applicable regional, national and local laws and regulations. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

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# Section 14. Transport information

	DOT Classification	TDG Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

### Section 15. Regulatory information

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

**Australia** : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted.

**Eurasian Economic Union** : Russian Federation inventory: Not determined.

Japan inventory (CSCL): Not determined. **Japan** 

Japan inventory (ISHL): Not determined.

**New Zealand** : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted.

**Taiwan** : Not determined. **Thailand** : Not determined. **Turkey** : Not determined.

**United States** : All components are active or exempted.

**Viet Nam** : Not determined.

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# Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Not listed

**Clean Air Act Section 602** 

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : SKIN IRRITATION - Category 2

SERIOUS EYE DAMAGE - Category 1

**State regulations** 

Massachusetts
 None of the components are listed.
 New York
 None of the components are listed.
 New Jersey
 None of the components are listed.
 Pennsylvania
 None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### **Section 16. Other information**

**History** 

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Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group UN = United Nations

### Procedure used to derive the classification

Classification	Justification
	Expert judgment Expert judgment

✓ Indicates information that has changed from previously issued version.

**Notice to reader** 

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### Section 16. Other information

Supply chain partners must ensure they pass this SDS, and all other relevant safety information to their customers.

#### **DISCLAIMER AND LIMITATION OF LIABILITY**

The information and recommendations contained in this Safety Data Sheet ("SDS") relate only to the specific material referred to herein (the "Material") and do not relate to the use of such Material in combination with any other material or process. The information and recommendations contained herein are believed to be current and correct as of the date of this SDS. HOWEVER, THE INFORMATION AND RECOMMENDATIONS ARE PRESENTED WITHOUT WARRANTY, REPRESENTATION OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THEIR ACCURACY, CORRECTNESS OR COMPLETENESS, AND THE SELLER, SUPPLIER AND MANUFACTURER OF THE MATERIAL AND THEIR RESPECTIVE AFFILIATES (COLLECTIVELY, THE "SUPPLIER") DISCLAIM ALL LIABILITY FOR RELIANCE ON SUCH INFORMATION AND RECOMMENDATIONS. This SDS is not a guarantee of safety. A buyer or user of the Material (a "Recipient") is responsible for ensuring that it has all current information necessary to safely use the Material for its specific purpose.

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