

Plexus II

Date: 2/9/2018

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name Plexus II

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

Uses of the Substance/Mixture Specific use(s): Agrochemicals

Details of the supplier of the safety data sheet

Company Rosen's Inc
700 SW 291 Hwy, Ste. 204
Liberty, MO 64068
Telephone number: (877) 781-9191

Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC (800-424-9300 within the United States or 703-527-3887 for international collect calls).

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Skin corrosion/irritation, Category 2 H315: Causes skin irritation
Serious eye damage/eye irritation, Category 2A H319: Causes serious eye irritation

Label Elements

HCS 2012 (29 CFR 1910.1200)

Pictogram



Signal Word

Warning!

Hazard Statements:

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements

Prevention

P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Ingestion Do not induce vomiting without medical advice.
If victim is conscious:
Rinse mouth with water. Keep at rest. Do not give anything to drink.
Do not leave the victim unattended. Vomiting may occur spontaneously. Risk of product entering the lungs on vomiting after ingestion. Lay victim on side. Seek medical advice.

Most important symptoms and effects, both acute and delayed

Risk Skin contact may aggravate existing skin disease
Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

Indication of any immediate medical attention and special treatment needed

Notes to physician All treatments should be based on observed signs of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
Treat symptomatically. There is no specific antidote available.

5. FIREFIGHTING MEASURES

Flash Point:
>100 degrees C (>212 degrees F)
Method Used: Closed cup

Extinguishing Media

Suitable extinguishing media Extinguishing media – small fires
Dry chemical
Carbon dioxide (CO₂)

Unsuitable extinguishing media Extinguishing media – large fires
Foam
Water spray
High volume water jet
(Frothing possible)

Special hazards arising from the substance of mixture

Specific hazards during fire fighting Under fire conditions:
Will burn
Container may rupture on heating
Highly toxic gases are released
Hazardous decomposition products formed under fire conditions.
On combustion or on thermal decomposition (pyrolysis), releases:
Nitrogen oxides (NO_x), Sulfur oxides, Carbon oxides, Oxides of phosphorus, Ammonia, Hydrogen sulfide, Methanethiol, Cyanides, Dimethyl disulfide

Advice for firefighters

Special protective equipment for firefighters Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures Use personal protective equipment
For further information refer to section 8 "Exposure controls/personal protection."

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.
Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

Methods and materials for containment and cleaning up

Prohibition Use only non-sparking tools.

Methods for containment Stop leak if safe to do so.
Dam up with sand or inert earth (do not use combustible materials).

Recovery Soak up with inert absorbent material.

Shovel or sweep up.

Keep in suitable, closed containers for disposal.

Never return spills in original containers for re-use.

Decontamination/cleaning Clean contaminated surface thoroughly.

Flush with plenty of water.

Recover the cleaning water for subsequent disposal.

Decontaminate tools, equipment, and personal protective equipment in a segregated area.

Disposal Dispose of in accordance with local regulations.

Reference to other sections

Reference to other sections 7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
13. DISPOSAL CONSIDERATIONS

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Do not use sparking tools.
Ensure all equipment is electrically grounded before beginning transfer operations.

Advice on safe handling on usage The product must only be handled by specifically trained employees.

Avoid contact with skin and eyes.

Avoid inhalation of vapor or mist.

Do not ingest.

Hygiene measures Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

1) Do not store, use, and/or consume foods, beverages,

tobacco products, or cosmetics in areas where this material is stored.

- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Conditions for safe storage, including any incompatibilities

Storage conditions

Recommended

Keep container tightly closed in a dry and well-ventilated place.

To be avoided

Keep away from open flames, hot surfaces, and sources of ignition.

Keep away from incompatible materials to be indicated by the manufacturer.

Incompatible products

Do not mix with incompatible materials (see list, section 10).

Storage stability

Storage temperature

< 113 F (< 45 C)

Specific end use(s)

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Introductory Remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

Control parameters

Ingredients with workplace control parameters

None known.

Exposure controls

Control measures

Engineering measures

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize exposures:

Effective exhaust ventilation system

Personal protective equipment

Respiratory protection

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Hand protection

Recommended preventive skin protection:

Gloves

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.

Eye protection	<p>Also take into account the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.</p> <p>Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.</p> <p>Eye contact should be prevented through the use of: Safety glasses with side-shields Face-shield</p>
Skin and body protection	<p>Recommended preventive skin protection Footwear protection against chemicals Impervious clothing</p> <p>Choose body protection according to the amount and concentration of the dangerous substances at the work place.</p>
Hygiene measures	<p>Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:</p> <ol style="list-style-type: none"> 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet. 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
Protective measures	<p>Ensure that eyewash stations and safety showers are close to the workstation location.</p> <p>Emergency equipment immediately accessible, with instructions for use. The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment. Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.</p>

9. PHYSICAL AND CHEMICAL PROPERTIES
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Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

Information on basic physical and chemical properties

Appearance	Physical state: Liquid Color: Beige to brown.
Odor	Characteristic
Odor Threshold	No data available
pH	No data available
Melting point/range	No data available
Flash point	>100 degrees C (212 degrees F). Closed Cup.
Evaporation rate (butylacetate = 1)	No data available
Flammability (solid, gas)	No data available

Flammability (liquids)	No data available
Flammability/Explosive limit	No data available
Autoignition temperature	No data available
Vapor pressure	No data available
Vapor density	No data available
Density	0.90 - 1.0 g/cm ³ (20 C (68 F))
Solubility	Water Solubility: Miscible
Partition coefficient: n-octanol/water	No data available
Thermal decomposition	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Other Information

Product does not sustain combustion.

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions

Polymerization Hazardous polymerization does not occur.

Conditions to avoid

Conditions to avoid Keep away from heat and sources of ignition.

Incompatible materials

Materials to avoid Strong bases, Strong oxidizing agents, Strong reducing agents.

Hazardous decomposition products

Decomposition products Carbon oxides, Sulfur oxides, Oxides of phosphorus.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods***Product Disposal*

Advice on Disposal

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Waste Code

EPA:
Hazardous waste - NO

Advice on cleaning and disposal of packaging

Advice on Disposal

Rinse with an appropriate solvent.
Dispose of contents/container in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT:

Not regulated.

TDG:

Not regulated.

IMDG

Not regulated.

IATA

No regulated.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

15. REGULATORY INFORMATION

Notification status

United States TSCA Inventory	YES (positive listing) On TSCA inventory.
Canadian Domestic Substances List (DSL)	YES (positive listing) All components of this product are on the Canadian DSL.
Australia Inventory of Chemical Substances (AICS)	YES (positive listing) On the inventory, or in compliance with the inventory
Japan. CSCL – Inventory of Existing and New Chemical Substances	N (Negative listing) Not in compliance with the inventory
Korea. Korean Existing Chemicals Inventory (KECI)	N (Negative listing) Not in compliance with the inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	N (Negative listing) Not in compliance with the inventory.

Federal Regulations

SARA 311/312 Hazards

Fire hazard	No
Reactivity Hazard	No
Sudden Release of Pressure Hazard	No
Acute Health Hazard	Yes
Chronic Health Hazard	No

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA – Emergency Planning and Community Right-to-Know

SARA 304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Reportable Quantity

This material does not contain any components with SARA 302 RQ.

16. OTHER INFORMATION

NFPA Classification

Health	2 serious
Flammability	1 slight
Instability or Reactivity	0 minimal

HMIS Classification

Health	2 serious
Flammability	1 slight
Reactivity	0 minimal

Further information

Date updated	2/9/2018
Further information	New product safety data sheet.

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA	8 hr time-weighted average
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
WHMIS	Workplace Hazardous Materials Information System
NTP	National Toxicology Program
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NFPA	National Fire Protection Association
HMIS	Hazardous Materials Identification System (Paint & Coating)

Disclaimer:

The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.