# SAFETY DATA SHEET

# Cipher

## 1. Identification

Trade Name: Cipher Family: Agrochemicals

Formula: Proprietary solvent blend of DCD and NBPT

Manufacturer: Rosens's Inc; 700 SW 291 Hwy, Ste. 204, Liberty, MO 64068.

Phone: 877-781-9191

For Chemical Emergencies call Chemtrec at 800-424-9300

For Other Emergencies call 911 and/or Appropriate Regulatory Agencies

## 2. Hazard Identification

## Classification of the substance or mixture

#### HCS 2012 (29 CFR 1910.1200)

Serious eye damage, Category 1 H318: Causes serious eye damage.

Reproductive toxicity, Category 2 H361: Suspected of damaging fertility or the unborn child.

#### **Label elements**

## HCS 2012 (29 CFR 1910.1200)

Pictogram:





Signal Word: Danger

#### **Hazard Statements:**

Causes serious eye damage.

Suspected of damaging fertility or the unborn child.

## **Precautionary Statements:**

Prevention

Obtain special instructions before use.

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

Wear eye protection/ face protection.

Use personal protective equipment as required.

### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention.

Immediately call a POISON CENTER or doctor/ physician.

### Storage

Store locked up.

#### Disposal

Dispose of contents/container in accordance with all applicable regulations.

## Other hazards which do not result in classification

Repeated or prolonged contact with skin may cause dermatitis or garlic-like odor of the breath. May cause an excess of methoglobin in blood or bluish-purple discoloration of skin.

# 3. Composition/Information on Ingredients

## **Mixture**

Synonyms: PROPRIETARY NBPT BLEND

#### **Hazardous Ingredients and Impurities**

Chemical Name	Identification Number CAS-No.	Concentration (%)
Phosphorothioic triamide, N-butyl-	94317-64-3	5 - 10
Triethyl Phosphate	78-40-0	1-5
*Proprietary	******	40-70
Dicyanodiamide	461-58-5	15-40

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First Aid Measures

### IF SWALLOWED:

Rinse mouth. Drink 8 – 16 ounces of water if conscious. Call a physician or poison control center

immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

#### IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and immediately call a poison center or physician.

#### IF ON SKIN:

Wash affected skin with soap and water. Remove contaminated clothing and launder clothing before reuse.

#### IF INHALED:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and call a physician.

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

#### Risks

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 and symptoms 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. Fire-Fighting Measures

Flash point : 210 °F (99 °C) Seta closed cup.

Flammability class: Will burn

Autoignition temperature : no data available

Flammability / Explosive limit: no data available

#### **Extinguishing media**

Suitable extinguishing media: Extinguishing media - small fires

Dry chemical

Carbon dioxide (CO2)

Extinguishing media - large fires

Foam

Water spray

Unsuitable extinguishing media: High volume water jet

(frothing possible)

#### Special hazards arising from the substance or 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 (NOx)

Sulfur oxides Carbon oxides

Oxides of phosphorus

Ammonia

Hydrogen sulfide Formaldehyde Methanethiol Cyanides

Hydrogen cyanide (hydrocyanic acid)

### **Advice for firefighters**

Special protective equipment for fire-fighters:

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

Use personal protective equipment.

For further information refer to section 8 "Exposure controls / personal protection."

#### **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

<u>Prohibition</u>: Use only non-sparking tools.

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

<u>Recovery</u>: 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.

<u>Decontamination / cleaning</u>: 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 all applicable regulations.

# 7. Handling and Storage

**Handling:** This product must only be handled by specifically trained employees. Do not use sparking tools. Avoid contact with skin and eyes. Do not ingest. Avoid inhalation of vapor or mist. Ensure all equipment is electrically grounded before beginning transfer operations. Wash hands after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Storage:** Store in original container. Keep containers tightly closed in a dry and well ventilated place. Do not allow product to freeze. Keep away from open flames, hot surfaces and sources of ignition. Do not mix with incompatible materials. Store above 32°F and below 104°F. Do not allow water or other chemicals to be introduced into contents of container. Do not contaminate water sources with equipment wash water, spray disposal wastes or by cleaning of equipment. Do not store near feed or food or consumer products.

# 8. Exposure Controls / Personal Protection Information

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.

#### **Ingredients with Workplace Control Parameters**

Ingredients	Value Type	Value	Basis
Dimethyl Sulfoxide	TWA	250 ppm	WEEL

Triethyl Phosphate	TWA	7.45 mg/m3	WEEL

#### **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 employee exposures: Effective exhaust ventilation system.

## **Personal Protective Equipment (PPE):**

#### 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. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

## Eye protection:

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.

Eye contact should be prevented through the use of:

Safety glasses with side-shields

Face-shield

#### Skin and body protection:

Recommended preventive skin protection Footwear protecting against chemicals impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### **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 materials:

- 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:

Ensure that eyewash stations and safety showers are close to the workstation location. 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.

# 9. Physical Chemical Properties

**pH** (in 1% water): 7.06

Flash Point: 210 °F (99 °C) Seta closed cup

**Flammability class:** Will burn **Freezing Point Range**: <32°F.

**% Volatile by Volume:** Not available **Density**: 1.17g/cm3 ( 68 °F (20 °C))

Solubility in Water: miscible

**Viscosity:** Viscosity, dynamic: < 100 mPa.s (77°F (25 °C)) **Evaporation Rate:** (**Butyl Acetate = 1**): Not available **Appearance & Odor:** Green liquid; pungent odor

This physical chemical properties information are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

# 10. Stability and Reactivity

**Stability:** Do not allow product to freeze. Store above 32°F.

**Conditions To Avoid**: Freezing temperatures, heat and sources of ignition.

**Incompatible Materials:** 

Strong bases

Strong oxidizing agents

Strong reducing agents.

Perchloric acid Mineral acids. Organic acids

Metals in presence of moisture

Zinc

Mild steel

Carbon steel

Halogenated compounds

Strong acids

Chlorates

Alkali metals

Acid chlorides

Ammonium nitrate

**Nitrates** 

## **Hazardous Decomposition Products:**

Carbon oxides

Sulfur oxides

Oxides of phosphorus

Nitrogen oxides (NOx) Ammonia, Formaldehyde, Dimethyl disulfide, PHOSPHINE, Hydrogen cyanide (hydrocyanic acid), Methanethiol, cyanides.

Hazardous Polymerization: Will not occur.

## 11. Toxicological Information

#### **Acute toxicity**

Acute oral toxicity: Not classified as harmful if swallowed According to the data on the components According to the classification criteria for mixtures.

Acute inhalation toxicity: Not classified as harmful by inhalation According to the data on the components According to the classification criteria for mixtures.

Acute dermal toxicity: Not classified as harmful by contact with skin According to the data on the components According to the classification criteria for mixtures.

Acute toxicity (other routes of administration): no data available

#### Skin corrosion/irritation

Skin irritation: Slightly irritating to rabbits on cutaneous application. Data available only for some components. Unpublished reports Active ingredient

#### Serious eye damage/eye irritation

Eye irritation: Risk of serious damage to eyes.

May cause irreversible eye damage. According to the data on the components According to the classification criteria for mixtures.

#### Respiratory or skin sensitization

Sensitization: Not classified as sensitizing by skin contact According to the data on the components According to the classification criteria for mixtures.

#### Mutagenicity

Genotoxicity in vitro: Product is not considered to be genotoxic According to the data on the components According to the classification criteria for mixtures.

Genotoxicity in vivo: Product is not considered to be genotoxic According to the data on the components According to the classification criteria for mixtures.

#### Carcinogenicity

Carcinogenicity: no data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by: NTP, IARC, OSHA, ACGIH

## Toxicity for reproduction and development

Toxicity to reproduction / fertility: Fertility study 2 generations; Possible risk of impaired fertility. According to the data on the components According to the classification criteria for mixtures.

Developmental Toxicity/Teratogenicity: no data available

#### **STOT**

STOT-single exposure: no data available STOT-repeated exposure: no data available

## **Experience with human exposure**

Experience with human exposure:

Inhalation: Symptoms: Nose bleeding, vomiting.

Data available only for some components. Published data

Active ingredient

## **Aspiration toxicity**

Aspiration toxicity : no data available

## 12. Ecological Information

Ecotoxicity information is not available for this product.

## 13. Disposal Considerations

Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to http://www.acrecycle.org/ for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state and federal regulations.

This product is NOT an EPA hazardous waste.

# 14. Transport Information

**Hazardous Classification:** Not Hazardous **Motor Freight Class:** Non regulated

**Item Number:** None **UN/NA Number:** None

Bill of Lading Description: Not regulated by US DOT for truck transportation

# 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: Yes

SARA 313: Not regulated SARA 302: Not regulated

#### **EPCRA- Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity** 

Dichloromethane – CAS-No 75-09-2 – Reportable Quantity 1000 lb

SARA 304 Reportable Quantity: N/A SARA 302 Reportable Quantity: N/A

#### 16. Other Information

#### **NFPA-Classification**

Health: 3 serious Flammability: 1 slight

Instability or Reactivity: 0 minimal

**HMIS-Classification** 

Health: 3 serious Flammability: 1 slight Reactivity: 0 minimal

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The information provided in this Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Safety Data Sheets from time to time as new technical information becomes available. The information contained herein is furnished without warranty of any kind.