

# SAFETY DATA SHEET

Kansas City, MO 64101

An Employee-Owned Company

Issue Date 12-Mar-2015 Revision Date 19-Jun-2017 Version 3

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

**Product Name** Amine 400 2,4-D Weed Killer

Other means of identification

Product Code PBI FP 814-1 EPA Pesticide Registration Number 2217-2

Recommended use of the chemical and restrictions on use

Recommended Use Herbicide.

**Uses advised against**No information available.

Details of the supplier of the safety data sheet

SupplierManufacturerCompany NamePBI Gordon CorporationPBI Gordon CorporationPBI Gordon Corporation1217 West 12th Street1217 West 12th Street1217 West 12th Street

Kansas City, MO 64101 Kansas City, MO 64101

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

#### Classification

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Serious eye damage/eye irritation	Category 1
Skin Sensitization	Category 1
Chronic Aquatic Toxicity	Category 2
Flammable liquids	Category 3

#### Label elements

### **Emergency Overview**

## Danger

#### Hazard statements

Harmful if swallowed. Causes serious eye damage. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Flammable liquid and vapor.



Appearance Liquid Physical state Liquid Odor Amines

#### **Precautionary Statements - Prevention**

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- Avoid release to the environment
- Keep away from heat/sparks/open flames/hot surfaces. No smoking
- · Keep container tightly closed

#### **Precautionary Statements - Response**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- In case of fire: Use CO2, dry chemical, or foam for extinction
- Collect spillage

#### **Precautionary Statements - Storage**

· Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

· Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Have the product label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.

The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H; however OSHA HCS 2012 flammable classifications are solely based on tested mixture flash points and boiling points.

#### Other Information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS. Number	Weight %
2,4-D, dimethylamine salt	2008-39-1	46.47

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

#### First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Call a physician.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist,

call a physician.

Revision Date 19-Jun-2017

**Ingestion** Do NOT induce vomiting. Remove from exposure, lie down. Clean mouth with water and

drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically. May cause sensitization of susceptible persons.

## 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use. Foam. Carbon dioxide (CO2). Dry chemical. Water spray (fog).

## Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined

areas. Use personal protective equipment as required. Keep people away from and upwind

of spill/leak.

**Environmental precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system. See Section 12 for additional

ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent

material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. After cleaning, flush away

traces with water.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Take precautionary measures

against static discharges. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in

closed systems.

Revision Date 19-Jun-2017

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated

place.

Incompatible materials Incompatible with strong acids and bases. Incompatible with oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH	TLV OSHA PEL	NIOSH IDLH
2,4-D, dimethylamine	salt TWA: 10 mg/m³ inh	halable fraction TWA: 10 mg/r	m <sup>3</sup> IDLH: 10 mg/m <sup>3</sup> , TWA: 10 mg/m <sup>3</sup>
2008-39-1	S*		

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**Appropriate engineering controls** 

**Engineering Controls** Local and General Ventilation.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection** Wear protective gloves and protective clothing. Wear long-sleeved shirt, long pants, socks

and shoes.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Keep away from food, drink and animal feeding stuffs.

Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear

suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid

Appearance Liquid Odor Amines

ColorBrownOdor thresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 7.5-8.5 Melting point/freezing point <35 °F

Boiling point / boiling range 101 °C / 214 °F

Flash point 52 °C / 125 °F Pensky-Martens Closed Cup (PMCC)

Evaporation rate <

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available

Vapor pressure <17 mm Hg

Vapor density >1

Specific Gravity 1.16

Water solubility Soluble in water

Solubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableOxidizing propertiesNo information available

Other Information

**Density** 9.62 pounds/gallon

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable.

#### **Possibility of Hazardous Reactions**

None under normal processing.

### **Hazardous polymerization**

Will not occur.

### **Conditions to avoid**

Keep from freezing.

#### **Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

## **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** 

**Inhalation** Irritant, moderate respiratory.

**Eye contact** Corrosive to eyes.

**Skin Contact** Moderate skin irritation.

**Ingestion** May cause irritation.

Oral LD50	Dermal LD50	Inhalation LC50
= 625 mg/kg ( Rat )	= 2115 mg/kg (Rabbit)	-

#### Information on toxicological effects

**Symptoms** No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides in

its Group 2B (limited evidence for Carcinogenicity in humans.) The US EPA has given the chlorophenoxy Herbicides 2,4-D, 2,4-DP, MCPP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.) More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen. The table below indicates whether each agency has listed any ingredient as a carcinogen.

 Chemical Name
 ACGIH
 IARC
 NTP
 OSHA

 2,4-D, dimethylamine salt
 Group 2B

 2008-39-1

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw

necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects. Repeated contact may cause allergic reactions in very

susceptible persons.

Target Organ EffectsEyes, Respiratory system, Skin.Aspiration hazardNo information available.

Numerical measures of toxicity - Product Information

**Unknown Toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1076 mg/kg
ATEmix (dermal) 17865 mg/kg
ATEmix (inhalation-gas) 80165 mg/L
ATEmix (inhalation-dust/mist) 6.9 mg/L

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

## Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging**Do not reuse container, unless specified by the manufacturer.

US EPA Waste Number U240 D001

See Section 2: Hazards not otherwise classified (HNOC)

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This product contains one or more substances that are listed with the State of California as a hazardous waste.

#### 14. TRANSPORT INFORMATION

DOT

**Proper shipping name** For package sizes less than 22.37 gallons: product is non-regulated.

For package sizes 22.37 gallons or greater: UN3082, Environmentally Hazardous

Substances, Liquid, N.O.S., 9, PGIII, RQ (2,4-D)

**Description** The following guidelines apply for domestic ground transport. If shipping by air or ocean,

please contact our Transportation Dept.

PESTICIDES, NOI, INCLUDING DEFOLIANTS, FUNGICIDES, HERBICIDES, OR

INSECTICIDES NMFC 155050-6

If shipped in bulk conatiners (greater than 119 gallons), this product is a Marine Pollutant.

When shipped as a Hazardous Material, label required is Class 9 (Miscellaneous).

Placards required on bulk shipments only.

## 15. REGULATORY INFORMATION

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** 2217-2

### Federal Insecticide, Fungicide, Rodenticide Act Regulations

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide Label**

Danger. Keep out of the reach of children. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through the skin. Do not get in eyes or on clothing. Avoid contact with skin.

#### International Inventories

Not Listed **TSCA DSL/NDSL** Not Listed **EINECS/ELINCS** Not Listed **ENCS** Not Listed **IECSC** Listed **KECL** Not Listed **PICCS** Listed **AICS** Listed

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
2,4-D, dimethylamine salt				Х			X		X	X

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute health hazardYesChronic Health HazardYesFire hazardYesSudden release of pressure hazardNoReactive HazardNo

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
2,4-D, dimethylamine salt	100 lb		RQ 100 lb final RQ
2008-39-1			RQ 45.4 kg final RQ

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

## International Regulations

Mexico - Grade Moderate risk, Grade 2

#### 16. OTHER INFORMATION

NFPA	Health hazards 3	Flammability 1	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 3	Flammability 1	Physical hazards 0	Personal protection X

#### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of PBI Gordon Corporation's knowledge, information and belief at the date of this publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process, unless specified in the text. PBI GORDON CORPORATION MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Each user is also responsible for evaluating the conditions of use and designing the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. PBI Gordon Corporation assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

**End of Safety Data Sheet**