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# MATERIAL SAFETY DATA SHEET REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

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DATE UPDATED: AUGUST 19, 2016

SECTION 1 CHEMICAL IDENTIFICATION		
Product Name	2,4-Dichlorophenoxy acetic acid sodium salt monohydrate	
Product Code(s)	DB0722	
Recommended Use	For Laboratory Use Only Not for Human or Animal Drug Use	

# SECTION 2. ----- HAZARDS IDENTIFICATION -----

## **Emergency Overview**

## **Target Organs**

Central nervous system

# WHMIS Classification

D1B	Toxic Material Causing Immediate and Serious	Toxic by ingestion
	Toxic Effects	
D2A	Very Toxic Material Causing Other Toxic Effects	Respiratory sensitiser
D2B	Toxic Material Causing Other Toxic Effects	Severe eye irritant

### **GHS Classification**

Acute toxicity, Oral (Category 4) Serious eye damage (Category 1) Respiratory sensitisation (Category 1) Acute aquatic toxicity (Category 2)

# GHS Label elements, including precautionary statements

Pictogram



Signal word	Danger
Hazard statement(s) H302 H318 H334 H401	Harmful if swallowed. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Toxic to aquatic life.
Precautionary statement(s) P261 P280 P305 + P351 + P338	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

P342 + P311	If present and easy to do. Continue rinsing.
physician.	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/
HMIS Classification Health hazard: Chronic Health Hazard: Flammability: Physical hazards:	2 * 0 0
Potential Health Effects	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed.

# SECTION 3. ---- COMPOSITION/INFORMATION ON INGREDIENTS -----

Chemical Name	EC No.	CAS-No	Weight %
2,4-Dichlorophenoxy acetic acid sodium salt monohydrate	-	2702-72-9	95-100

# SECTION 4. ----- FIRST-AID MEASURES------

# **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

# If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# SECTION 5. ----- FIRE FIGHTING MEASURES -----

# Conditions of flammability

Not flammable or combustible.

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## Hazardous combustion products

Explosion data - sensitivity to mechanical impact no data available

Explosion data - sensitivity to static discharge no data available

# SECTION 6. ----- ACCIDENTAL RELEASE MEASURES------

# Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

## **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## SECTION 7. ----- HANDLING AND STORAGE------

## Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Conditions for safe storage

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

# SECTION 8. ---- EXPOSURE CONTROLS/PERSONAL PROTECTION-----

## Personal protective equipment

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

# SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

#### Appearance

Form	solid
Colour	no data available
Safety data	
рН	no data available

Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evapouration rate	no data available

## SECTION 10. ------STABILITY AND REACTIVITY -----

## **Chemical stability**

Stable under recommended storage conditions.

Possibility of hazardous reactions no data available

Conditions to avoid no data available

Materials to avoid no data available

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, Sodium oxides Other decomposition products - no data available

# SECTION 11. ----- TOXICOLOGICAL INFORMATION ------

## Acute toxicity

Oral LD50 no data available

Inhalation LC50 no data available

Dermal LD50 no data available

Other information on acute toxicity no data available

# Skin corrosion/irritation

no data available

# Serious eye damage/eye irritation

no data available

# Respiratory or skin sensitisation

no data available May cause sensitisation by inhalation.

# Germ cell mutagenicity

no data available

### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### **Reproductive toxicity** no data available

Teratogenicity no data available

Specific target organ toxicity - single exposure (Globally Harmonized System) no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available

#### Aspiration hazard no data available

# Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

#### Synergistic effects no data available

**Additional Information RTECS:** Not available

#### SECTION 12. ----- ECOLOGICAL INFORMATION -----

# Toxicity

no data available

#### Persistence and degradability no data available

**Bioaccumulative potential** no data available

#### Mobility in soil no data available

PBT and vPvB assessment no data available

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life.

no data available

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

# Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## **Contaminated packaging**

Dispose of as unused product.

# SECTION 14. ----- TRANSPORT INFORMATION -----

## DOT (US)

Not dangerous goods

# IMDG

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. ((2,4-Dichlorophenoxy)acetic acid sodium salt monohydrate) Marine pollutant: Marine pollutant

## ΙΑΤΑ

UN number: 3077 Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. ((2,4-Dichlorophenoxy)acetic acid sodium salt monohydrate)

# **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

# SECTION 15. ----- REGULATORY INFORMATION -----

# WHMIS Classification

D1B	Toxic Material Causing Immediate and Serious Toxic Effects	Toxic by ingestion
D2A	Very Toxic Material Causing Other Toxic Effects	Respiratory sensitiser
D2B	Toxic Material Causing Other Toxic Effects	Severe eye irritant

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SECTION 16 OTHER INFORMATION		
Issuing Date	13-Aug-2009	
Revision Date	19-Aug-2016	
Revision Note	No information available.	
<b>Recommended Restrictions</b>	No information available	

# Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of MSDS**