

# 2,4 Dichlorophenoxyacetic acid

D0911

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reference number: D0911

Issue date: 1/13/2012 Revision date: 4/4/2023 Supersedes version of: 10/7/2020 Version: 4.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance

Trade name : 2,4 Dichlorophenoxyacetic acid IUPAC name : (2,4-dichloro-phenoxy)-acetic acid

 EC Index-No.
 : 607-039-00-8

 EC-No.
 : 202-361-1

 CAS-No.
 : 94-75-7

 Product code
 : D0911

 Formula
 : C8H6Cl2O

 Product group
 : Raw material

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

### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended only

for "in vitro laboratory" research purposes.

### 1.2.2. Uses advised against

No additional information available

# 1.3. Details of the supplier of the safety data sheet

### **Supplier**

Duchefa Biochemie B.V.

A. Hofmanweg 71

2031 BH Haarlem

The Netherlands

T +31(0)23-5319093 - F +31(0)23-5318027

info@duchefa.nl

# 1.4. Emergency telephone number

Emergency number : Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00) +31(0)6-30109355 (outside office hours)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	World Health Organization world directory of poison centres	http://apps.who.int/poiso ncentres/		Consult website for a local poison centre
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Specific target organ toxicity – Single exposure, Category 3, H335

Respiratory tract irritation

Hazardous to the aquatic environment - Chronic Hazard, Category H412

3

Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05 GHS07

Signal word (CLP) : Danger

Hazard statements (CLP) : H302 - Harmful if swallowed.

H317 - May cause an allergic skin reaction.H318 - Causes serious eye damage.H335 - May cause respiratory irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P280 - Wear protective gloves, face protection, protective clothing, eye

protection.

P261 - Avoid breathing dust.

P273 - Avoid release to the environment.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

# 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

Name : 2,4 Dichlorophenoxyacetic acid

CAS-No. : 94-75-7 EC-No. : 202-361-1 EC Index-No. : 607-039-00-8

Name	Product identifier	%
, (11), , 111111111111111111111111111111	CAS-No.: 94-75-7 EC-No.: 202-361-1 EC Index-No.: 607-039- 00-8	≥ 96

### 3.2. Mixtures

Not applicable

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : Allow affected person to breathe fresh air. Get medical advice and attention if

you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Get medical advice/attention. First-aid measures after eye contact : Rinse with water. Get immediate medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a physician immediately.

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

Symptoms/effects : Unconsciousness. Disturbances of heart rate.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, or water spray or regular foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

 $\label{products} \mbox{Hazardous decomposition products in case of} \quad : \quad \mbox{Under fire conditions, hazardous fumes will be present.} \quad - \mbox{COx}.$ 

fire

# 5.3. Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including

respiratory protection.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spill should be handled by trained cleaning personnel properly equipped with

respiratory and eye protection.

### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing.

Measures in case of dust release : Avoid dust formation. Ensure there is adequate ventilation.

### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up dry powder and dispose properly.

### 6.4. Reference to other sections

No additional information available

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling

: Avoid dust formation. Handle in accordance with good industrial hygiene and safety procedures. Ensure adequate ventilation.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area. Store at room temperature.

# 7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

No additional information available

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

# 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

No additional information available

# 8.2.2. Personal protection equipment

# Personal protective equipment symbol(s):



# 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses

# 8.2.2.2. Skin protection

# Skin and body protection:

Wear suitable protective clothing

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11		EN ISO 374

### 8.2.2.3. Respiratory protection

# **Respiratory protection:**

Filter type P3 (EN 143)

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : Light yellow. **Appearance** : Powder. Molecular mass : 221 g/mol Odour : Characteristic. Odour threshold : Not available Melting point : 137 °C Freezing point : Not available Boiling point : Not available : Not available Flammability **Explosive limits** : Not applicable : Not applicable Lower explosion limit : Not applicable Upper explosion limit : > 100 °C Flash point Auto-ignition temperature : Not applicable Decomposition temperature : Not available : Not available рΗ pH solution : Not available Viscosity, kinematic : Not applicable : Not available Solubility Partition coefficient n-octanol/water (Log : Not available

Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : ≈ 750 kg/m<sup>3</sup> Relative density : Not available Relative vapour density at 20°C : Not applicable Particle size : Not available

# 9.2. Other information

# 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No additional information available

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 10.4. Conditions to avoid

- Heat. Moisture.

### 10.5. Incompatible materials

Strong oxidizers.

# 10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes: - COx.

# SECTION 11: Toxicological information

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

2,4 Dichlorophenoxyacetic acid (94-75-7)		
LD50 oral rat	699 mg/kg	
LD50 dermal rabbit	> 2000	

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

# 2,4-D (ISO); 2,4-dichlorophenoxyacetic acid (94-75-7)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified Aspiration hazard : Not classified

# 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Hazardous to the aquatic environment, : Not classified

short-term (acute)

Hazardous to the aquatic environment, long- : Harmful to aquatic life with long lasting effects.

term (chronic)

2,4 Dichlorophenoxyacetic acid (94-75-7)		
LC50 - Fish [1]	240 ppm Oncorhynchus mykiss (Rainbow trout)	
EC50 - Crustacea [1]	> 100 Daphnia Magna	
EC50 72h - Algae [1]	33.2 mg/l	

# 12.2. Persistence and degradability

2,4 Dichlorophenoxyacetic acid (94-75-7)	
Persistence and degradability	Product is biodegradable.

# 2,4 Dichlorophenoxyacetic acid

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# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information

: Very toxic to aquatic life with long lasting effects. Prevent entry to sewers and public waters. Avoid release to the environment

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA

# 14.1. UN number or ID number

UN-No. (ADR) : UN 3077 UN-No. (IMDG) : UN 3077 UN-No. (IATA) : UN 3077

# 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

Transport document description (ADR) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III,

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Transport document description (IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III

Transport document description (IATA) : UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III

### 14.3. Transport hazard class(es)

### **ADR**

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9

9

### **IMDG**

Transport hazard class(es) (IMDG)
Danger labels (IMDG)

9

: 9

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### **IATA**

Transport hazard class(es) (IATA) : 9
Danger labels (IATA) : 9



# 14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III

### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

# 14.6. Special precautions for user

### **Overland transport**

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 90

Orange plates

90 3077

Tunnel restriction code (ADR) : EAC code : 2Z

### Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23
MFAG-No : 171

# Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197

ERG code (IATA) : 9L

# 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

### **REACH Annex XVII (Restriction List)**

Not listed on REACH Annex XVII

### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

### **POP Regulation (Persistent Organic Pollutants)**

Not listed on the POP list (Regulation EU 2019/1021)

### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

# **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
1.3	Supersedes	Modified	

Abbreviations and acronyms:		
ATE	Acute Toxicity Estimate	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DPD	Dangerous Preparations Directive 1999/45/EC	
DSD	Dangerous Substances Directive 67/548/EEC	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
PBT	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
SDS	Safety Data Sheet	

Data sources

: ECHA (European Chemicals Agency). Supplier. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H302	Harmful if swallowed.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

Safety Data Sheet (SDS), EU Duchefa 2023