

# SAFETY DATA SHEET

## POLO

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS #: T095A-3030-A  
Revision date: 2019-11-14  
Format: EU  
Version 1

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Code(s)** T095A-3030-A

**Product Name** POLO

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

**Recommended Use:** Herbicide, Restricted to professional users

**Restrictions on use** Use as recommended by the label.

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

**Supplier** FMC Agro Limited  
Rectors Lane  
Pentre  
Flintshire  
CH5 2DH  
United Kingdom  
Tel: + 44 1244 537370  
E-mail: fmc.agro.uk@fmc.com

For further information, please contact:

**Contact point** E-Mail: SDS-Info@fmc.com  
Phone: +1 215-299-6000 (General Information)

#### 1.4. Emergency telephone number

**Emergency telephone** Tel: +44(0) 1244 537370 (Office hours only)

Medical emergencies:

Austria: +43 1 406 43 43  
Belgium: +32 70 245 245  
Bulgaria: +359 2 9154 409  
Cyprus: 1401  
Czech Republic: +420 224 919 293, +420 224 915 402  
Denmark: +45 82 12 12 12  
France: +33 (0) 1 45 42 59 59  
Finland: +358 9 471 977  
Greece: 30 210 77 93 777  
Hungary: +36 80 20 11 99  
Ireland (Republic): +352 1 809 2166  
Italy: +39 02 6610 1029  
Lithuania: +370 523 62052, +370 687 53378  
Luxembourg: +352 8002 5500  
Netherlands: +31 30 274 88 88  
Norway: +47 22 591300

Poland: +48 22 619 66 54, +48 22 619 08 97  
 Portugal: 800 250 250 (in Portugal only), +351 21 330 3284  
 Romania: +40 21318 3606  
 Slovakia: +421 2 54 77 4 166  
 Slovenia: +386 41 650 500  
 Spain: +34 91 562 04 20  
 Sweden: +46 08-331231112  
 Switzerland: 145  
 United Kingdom: 0870 600 6266 (in the UK only)  
 U.S.A. & Canada: +1 800 / 331-3148  
 All other countries: +1 651 / 632-6793 (Collect)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture *Regulation (EC) No 1272/2008*

Serious eye damage/eye irritation	Category 1 (H318)
Acute aquatic toxicity	Category 1 (H400)
Chronic aquatic toxicity	Category 2 (H411)

### 2.2. Label elements

#### Hazard pictograms



**Signal Word**  
 Danger

#### Hazard Statements

H318 - Causes serious eye damage  
 H410 - Very toxic to aquatic life with long lasting effects

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use  
 EUH208 - Contains ( 2,4-D DMA Salt ). May produce an allergic reaction

#### Precautionary Statements

P273 - Avoid release to the environment  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 P330 - Rinse mouth  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P391 - Collect spillage  
 P501: Dispose of contents/container as hazardous waste in accordance with local regulations.

### 2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

The product is a mixture, not a substance.

**3.2 Mixtures**

Chemical name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
2,4-D DMA	217-915-8	2008-39-1	36.4	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	No data available
MCPA DMA	218-014-2	2039-46-5	32.4	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Tetrasodium EDTA	200-449-4	60-00-4	<0.5	Acute Tox. 4 (Inhalation), (H332) Eye Irrit. 2, (H319) STOT RE 2, (H373)	No data available

**Additional Information**

For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16

**Section 4: FIRST AID MEASURES****4.1. Description of first aid measures**

<b>General Advice</b>	Call a poison control center or a doctor if you feel unwell.
<b>Eye Contact</b>	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.
<b>Skin Contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
<b>Inhalation</b>	Remove person to fresh air. If breathing is difficult or if discomfort occurs and persists, obtain medical attention.
<b>Ingestion</b>	Rinse mouth. Call a doctor or poison control centre immediately. Do NOT induce vomiting. Drink 1 or 2 glasses of water.

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

<b>Most important symptoms and effects, both acute and delayed</b>	<p>Skin contact: Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure.</p> <p>Eye contact: There may be pain and redness. The eyes may water profusely. May cause permanent damage.</p> <p>Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.</p> <p>Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.</p> <p>Delayed / immediate effects: Immediate effects can be expected after short-term exposure. Possible systemic effects via inhalation.</p>
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically. Eye bathing equipment should be available on the premises. A decontamination shower should be available on the premises.
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**Section 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

Water spray, Dry powder, Foam, Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Avoid heavy hose streams.

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

None known.

**5.3. Advice for firefighters**

Isolate fire area. Evaluate upwind. As in any fire, wear self-contained breathing apparatus and full protective gear.

**Section 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions**

In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation. Avoid contact with the skin and the eyes.

For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Do not release to the environment.

**6.3. Methods and material for containment and cleaning up****Methods for Containment**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up**

Pick up and transfer to properly labelled containers. Dispose of in accordance with all applicable national environmental laws and regulations.

**6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Handling**

Store in a cool, dry, well-ventilated place. Keep container tightly closed.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage**

Store above 0°C. Keep away from food, drink and animal feedingstuffs. Keep away from heat. Store in a well-ventilated place. Keep cool.

**7.3. Specific end use(s)****Specific Use(s)**

The product is a registered pesticide which may only be used for the applications it is registered for, in accordance with a label

approved by the regulatory authorities.

**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)

United Kingdom WEL TWA (mg/m<sup>3</sup>) 10 mg/m<sup>3</sup> 8 H

United Kingdom WEL STEL (mg/m<sup>3</sup>) 20 mg/m<sup>3</sup> 15 min

(4-CHLORO-2-METHYLPHENOXY) ACETIC ACID, DIMETHYLAMINE SALT (2039-46-5)

United Kingdom WEL TWA (mg/m<sup>3</sup>) 10 mg/m<sup>3</sup> 8 h

United Kingdom WEL STEL (mg/m<sup>3</sup>) 20 mg/m<sup>3</sup> 15 min

EDTA (60-00-4)

EU Local name EDTA

EU Notes (Year of adoption 2009)

EU Regulatory reference SCOEL Recommendations

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

**Personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields.

**Hand Protection** Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.

**Skin and Body Protection** Wear protective gloves/clothing.

**Respiratory Protection** In case of insufficient ventilation wear suitable respiratory equipment.

**Environmental exposure controls** Avoid release to the environment.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid
<b>Appearance</b>	Liquid
<b>Odour</b>	Mild amine
<b>Colour</b>	Yellow
<b>Odour threshold</b>	No information available
<b>pH</b>	8.1 – 9.9 (100% @ 20°C ± 1°C); 5.7 – 9.0 (1% w/v solution @ 20°C ± 1°C)
<b>Melting point/freezing point</b>	No information available
<b>Boiling point/boiling range</b>	No information available
<b>Flash point</b>	> 200 °C
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	
<b>Flammability Limit in Air</b>	

<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit</b>	No information available
<b>Vapour pressure</b>	No information available
<b>Vapour density</b>	No information available
<b>Specific gravity</b>	1.192 - 1.202 (20°C ± 1°C)
<b>Water solubility</b>	Miscible with water
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	-0.82 (2,4-D, pH7) ; -0.81 (MCPA, pH7)
<b>Autoignition temperature</b>	>100 °C
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	34.7 mPa·s
<b>Explosive properties</b>	Not explosive
<b>Oxidising properties</b>	Non-oxidizing (by EC criteria)

### 9.2. Other information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available
<b>K<sub>st</sub></b>	No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal use conditions

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### Explosion data

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

### 10.3. Possibility of hazardous reactions

#### **Hazardous polymerisation**

Hazardous polymerization does not occur.

#### **Hazardous reactions**

None under normal processing.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids, Strong bases, oxidising agents.

### 10.6. Hazardous decomposition products

None under normal use. Thermal decomposition can lead to release of irritating gases and vapours.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### **Acute toxicity**

**Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

**LD50 Oral** 2500 mg/kg (rat)  
**LD50 Dermal** > 2000 mg/kg (rat)  
**Inhalation LC50** > 5.1 mg/l 4 hr (rat)

**Skin corrosion/irritation** Not classified.  
**Serious eye damage/eye irritation** Causes serious eye irritation.  
**Sensitisation** Non-sensitizing

**Mutagenicity** Not a mutagen based on the evaluated studies.  
**Carcinogenicity** This product is not considered to be a carcinogen.

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards.  
**STOT - single exposure** Not classified.  
**STOT - repeated exposure** Not classified.  
**Aspiration hazard** The substance does not present an aspiration pneumonia hazard.

## Section 12: ECOLOGICAL INFORMATION

**12.1. Toxicity**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects

The ecotoxicity of the product is measured as:

LC50 96h fish > 357 mg/l *Oncorhynchus mykiss* (Rainbow trout)

EC50 48h crustacea > 342 *Daphnia magna*

EC50 72h algae > 350 mg/l *Pseudokirchneriella subcapitata*

ErC50 (algae) 32 mg/l *Lemna minor*; 7d

NOEC (chronic) 46.2 mg/L (2,4-D, *Daphnia*, 21d); 50 mg/L (MCPA, *Daphnia*, 21d)

NOEC chronic fish 15 mg/L (MCPA, *Pimephales promelas*, 28d); 63.4 mg/L (2,4-D, *Pimephales promelas*, 32d)

NOEC chronic algae 3.17 mg/l *Lemna minor*

2,4-D / MCPA DMA 360/315 G/L AI

14 d ErC50 (*Myriophyllum spicatum*) 0.378 mg/L

14 d ErC10 (*Myriophyllum spicatum*) 0.082 mg/L

LC50 (*Eisenia fetida*) 353 ppm

14d NOEL (*Eisenia fetida*) 95 ppm

LD50 Oral/contact (*Apis mellifera*) 289.9 µg/bee

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)

Additional ecotoxicological information 14 d NOErC (*Myriophyllum aquaticum*) 0.0305mg/L (2,4-D)

14 d ErC50 (Myriophyllum aquaticum) 0.346mg/L (2,4-D)

14 d NOErC (Myriophyllum aquaticum) 0.0305mg/L (2,4-D)

14 d ErC50 (Myriophyllum aquaticum) 0.346mg/L (2,4-D)

### 12.2. Persistence and degradability

Readily biodegradable.

### 12.3. Bioaccumulative potential

The substance has a low potential to bioaccumulate in the environment.

### 12.4. Mobility in soil

#### **Mobility in soil**

Mobile in soil. After release, adsorbs onto soil.

### 12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from residues / unused products** Transfer to a suitable container and arrange for collection by specialised disposal company. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

**Contaminated Packaging** Clean container with water. Dispose of rinse water in accordance with local and national guidelines. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**OTHER INFORMATION** NOTE : The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.

## Section 14: TRANSPORT INFORMATION

### IMDG/IMO

<b>14.1 UN/ID no</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s (2,4-D / MCPA)
<b>14.3 Hazard class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Marine Pollutant</b>	Yes
<b>Environmental Hazard</b>	Yes
<b>14.6 Special Provisions</b>	Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment
<b>14.7 Transport in bulk according to</b>	The product is not transported in bulk by ship.

**Annex II of MARPOL and the IBC Code****RID**

<b>14.1 UN/ID no</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s (2,4-D / MCPA)
<b>14.3 Hazard class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental Hazard</b>	Yes
<b>14.6 Special Provisions</b>	Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment

**ADR/RID**

<b>14.1 UN/ID no</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s (2,4-D / MCPA)
<b>14.3 Hazard class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental Hazard</b>	Yes
<b>14.6 Special Provisions</b>	Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment.

**ICAO/IATA**

<b>14.1 UN/ID no</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s (2,4-D / MCPA)
<b>14.3 Hazard class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental Hazard</b>	Yes
<b>14.6 Special Provisions</b>	Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment

**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations** Young people under the age of 18 are not allowed to work with the substance.

The employer shall assess any risks to the safety or health and any possible effect on the pregnancies or breastfeeding of workers and decide what measures should be taken (Dir. 92/85/EEC).

**Germany****WGK Classification**

Water hazard class (WGK) 3, Highly hazardous to water (Classification according to VwVwS, Annex 4)

**European Union****Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not Applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not Applicable

**International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
2,4-D DMA 2008-39-1			X		X		X	X
MCPA DMA 2039-46-5			X					X
Tetrasodium EDTA 60-00-4	X	X	X	X	X	X	X	X

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: OTHER INFORMATION

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

#### Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
EUH208 - May produce an allergic reaction  
EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

#### Legend

**ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road  
**CAS:** CAS (Chemical Abstracts Service)  
**Ceiling:** Maximum limit value:  
**DNEL:** Derived No Effect Level (DNEL)  
**EINECS:** EINECS (European Inventory of Existing Chemical Substances)  
**GHS:** Globally Harmonised System (GHS)  
**IATA:** International Air Transport Association (IATA)  
**ICAO:** International Civil Aviation Organization  
**IMDG:** International Maritime Dangerous Goods (IMDG)  
**LC50:** LC50 (lethal concentration)  
**LD50:** LD50 (lethal dose)  
**PBT:** Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
**RID:** Regulations Concerning the International Transport of Dangerous Goods by Rail  
**STEL:** Short term exposure limit  
**SVHC:** SVHC: Substances of Very High Concern for Authorisation:

**TWA:** time weighted average  
**vPvB:** very Persistent and very Bioaccumulative

#### Key literature references and sources for data

Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

**Revision date:** 2019-11-14

**Reason for revision:** Initial Release.

**Training Advice** This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

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. The information given is designed only as a 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 process, unless specified in the text.

Prepared By

FMC Corporation

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**End of Safety Data Sheet**