



DICOPHAR

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 19/01/2004

Revision date: 29/01/2014

Supersedes: 14/10/2013

Version: 11.1

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

1.1. Product identifier

Product form : Mixture
Trade name : DICOPHAR
Product code : CA701376
Synonyms : 2,4-D 70 g/L, MCPA 70 g/L, MCPP-P 42 g/L, Dicamba 20 g/L, DMA salt SL

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Agriculture.
Pesticide
Use of the substance/mixture : Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Emergency number : 0870 190 6777 (CARECHEM 24)
112 (European Emergency Number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Eye Irrit. 2 H319
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols : ---
Hazardous ingredients : salts and esters of MCPA, salts of 2,4-D, MCPP-P DMA salt, Dicamba DMA salt
R-phrases : NC - Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC
S-phrases : S2 - Keep out of the reach of children
S13 - Keep away from food, drink and animal feedingstuffs
S20/21 - When using do not eat, drink or smoke

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
salts and esters of MCPA (Hazard classification of this material is based on the worst possible case)	(CAS No)2039-46-5 (EC no)218-014-2	7,7 - 9,2	Xn; R20/21/22 Xi; R41 N; R50/53
salts of 2,4-D (Hazard classification of this material is based on the worst possible case)	(CAS No)2008-39-1 (EC no)217-915-8	7,4 - 8,9	Xn; R22 Xi; R41 R43 N; R50/53
MCPPP-P DMA salt (Hazard classification of this material is based on the worst possible case)	(CAS No)66423-09-4	4,7 - 5,6	Xn; R22 Xi; R41 N; R51/53 Xi; R38
Dicamba DMA salt (Hazard classification of this material is based on the worst possible case)	(CAS No)2300-66-5 (EC no)218-951-7 (EC index no)607-044-00-5	2,3 - 2,8	Xi; R36 N; R50/53 Xn; R20

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
salts and esters of MCPA (Hazard classification of this material is based on the worst possible case)	(CAS No)2039-46-5 (EC no)218-014-2	7,7 - 9,2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
salts of 2,4-D (Hazard classification of this material is based on the worst possible case)	(CAS No)2008-39-1 (EC no)217-915-8	7,4 - 8,9	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
MCPPP-P DMA salt (Hazard classification of this material is based on the worst possible case)	(CAS No)66423-09-4	4,7 - 5,6	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Dicamba DMA salt (Hazard classification of this material is based on the worst possible case)	(CAS No)2300-66-5 (EC no)218-951-7 (EC index no)607-044-00-5	2,3 - 2,8	Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If medical advice is needed, have product container or label at hand.
- First-aid measures after inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately get medical attention.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry extinguishing powder. Carbon dioxide (CO₂). Water fog.
- Unsuitable extinguishing media : High power water jet.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Non-flammable.

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5.3. Advice for firefighters

Precautionary measures fire	: No naked lights. No smoking.
Firefighting instructions	: Evacuate and limit access. Use water spray jet to protect personnel and to cool endangered containers.
Protection during firefighting	: Wear full chemical protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Other information	: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : When leaks or spills occur, only properly protected personnel should remain in the area.

6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
Emergency procedures	: Evacuate area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert. Eliminate every possible source of ignition.

6.1.2. For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Prevent spreading in sewers. Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up	: Collect spills and put it into appropriated container.
Other information	: Special danger of slipping by leaking/spilling product.

6.4. Reference to other sections

Exposure controls/personal protection. Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow to enter into surface water or drains.
Handling temperature	: at room temperature
Hygiene measures	: Do no eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground well. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Storage conditions	: Protect against direct sunlight.
Incompatible products	: Strong acid. Strong bases. Oxidizing agents, strong.
Maximum storage period	: 2 year(s)
Storage temperature	: Protect from freezing
Storage area	: Keep container tightly closed in a cool, well-ventilated place. Provide for retaining containers, eg. floor pan without outflow.
Packaging materials	: Keep only in the original container. Keep locked up.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

MCP-P DMA salt (66423-09-4)		
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	20 mg/m ³

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8.2. Exposure controls

Personal protective equipment : Gloves. Gas mask. Safety glasses.



Hand protection : Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection : Face shield. Chemical goggles or safety glasses.

Skin and body protection : Skin protection appropriate to the conditions of use should be provided.

Respiratory protection : If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls : Notify authorities if product enters sewers or public waters.

Other information : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : brown.

Odour : Amine-like.

Odour threshold : No data available

pH : 9 - 10

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : > 110 °C

Self ignition temperature : > 603 °C

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 1,065 g/ml (20°C)

Solubility : Soluble in water.

Log Pow : No data available

Viscosity, kinematic : 2,337 mm²/s (40°C)

Viscosity, dynamic : No data available

Explosive properties : not explosive.

Oxidising properties : not oxidizing.

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

When exposed to heat, may decompose liberating hazardous gases.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions. Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Protect against direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong acid. Strong bases. Strong oxidizing agents.

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10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

DICOPHAR	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	not applicable

salts and esters of MCPA (2039-46-5)	
LD50 oral rat	1000 mg/kg
LD50 dermal rat	1000 - 2000 mg/kg
LC50 inhalation rat (mg/l)	> 4,5 mg/l/4h

salts of 2,4-D (2008-39-1)	
LD50 oral rat	764 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

MCPP-P DMA salt (66423-09-4)	
LD50 oral rat	500 - 2000 mg/kg
LD50 dermal rat	> 4000 mg/kg
LC50 inhalation rat (mg/l)	5,2 mg/l/4h

Dicamba DMA salt (2300-66-5)	
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	4,46 mg/l/4h

Irritation : Not classified
pH: 9 - 10

Corrosivity : Not classified
pH: 9 - 10

Sensitisation : Not classified

Repeated dose toxicity : Not classified

Carcinogenicity : Not classified

Mutagenicity : Not classified

Toxicity for reproduction : Not classified

SECTION 12: Ecological information

12.1. Toxicity

DICOPHAR	
LC50 fishes 1	> 110 mg/l (96h)
EC50 Daphnia 1	> 110 mg/l (48h)
ErC50 (algae)	> 800 mg/l (72h)
ErC50 (other aquatic plants)	68,9 mg/l (Lemna)

salts and esters of MCPA (2039-46-5)	
LC50 fishes 1	50 mg/l (96h <i>Oncorhynchus mykiss</i>)
EC50 Daphnia 1	> 190 mg/l
ErC50 (algae)	32,9 mg/l
ErC50 (other aquatic plants)	0,152 mg/l (Lemna)

salts of 2,4-D (2008-39-1)	
LC50 fishes 1	168,4 mg/l (96h)
EC50 Daphnia 1	10 - 100 mg/l (48h)
ErC50 (algae)	59,9 mg/l (72h)
ErC50 (other aquatic plants)	0,58 mg/l Lemna: The literature data available to us do not conform with the classification and labelling prescribed by the EC. The EC has dossiers which have not been published

MCPP-P DMA salt (66423-09-4)	
LC50 fishes 1	> 100 mg/l (96h)
EC50 Daphnia 1	> 91 mg/l (48h)

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MCPP-P DMA salt (66423-09-4)	
ErC50 (algae)	19,6 mg/l (72h)
ErC50 (other aquatic plants)	1,9 mg/l (Lemna)
Dicamba DMA salt (2300-66-5)	
LC50 fishes 1	> 100 mg/l (96h Cyprinus carpio)
EC50 Daphnia 1	97 mg/l (48h Daphnia magna)
ErC50 (algae)	2,16 mg/l
ErC50 (other aquatic plants)	> 0,45 mg/l Lemna: The literature data available to us do not conform with the classification and labelling prescribed by the EC. The EC has dossiers which have not been published

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

salts and esters of MCPA (2039-46-5)	
Log Pow	-0,76 (pH=7)
Log Kow	0,65

salts of 2,4-D (2008-39-1)	
BCF fish 1	10 mg/l
Log Pow	-0,83

MCPP-P DMA salt (66423-09-4)	
Log Pow	0,02 (pH=7, 20°C)

Dicamba DMA salt (2300-66-5)	
Log Pow	0,55

12.4. Mobility in soil

DICOPHAR	
Surface tension	69,9 mN/m (20°C)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of this material and its container to hazardous or special waste collection point.
Additional information	: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads). Notify authorities if product enters sewers or public waters.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available.

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14.6. Special precautions for user

14.6.1. Overland transport

Transport regulations (ADR) : Not subject

14.6.2. Transport by sea

Transport regulations (IMDG) : Not subject

14.6.3. Air transport

Transport regulations (IATA) : Not subject

14.6.4. Inland waterway transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

Seveso Information :

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Indication of changes:

	PCA packing instructions (IATA)	Removed	
	Revision date	Modified	
	Supersedes	Modified	
	PCA max net quantity (IATA)	Removed	
	PCA limited quantity max net quantity (IATA)	Removed	
	PCA Limited quantities (IATA)	Removed	
	PCA Excepted quantities (IATA)	Removed	
	Packing group (IATA)	Removed	
	CAO packing instructions (IATA)	Removed	
	CAO max net quantity (IATA)	Removed	
	UN-No.(IATA)	Removed	
	EmS-No. (Spillage)	Removed	
	EmS-No. (Fire)	Removed	
	Packing group (IMDG)	Removed	
	Class (IATA)	Removed	
	UN-No. (IMDG)	Removed	
	Class (IMDG)	Removed	
14.1	UN-No (ADR)	Removed	
14.2	Proper Shipping Name	Removed	
14.3	Hazard labels (UN)	Removed	
14.3	Class (UN)	Removed	
14.4	Packing group (UN)	Removed	
14.6	Instruction "passenger" - Limited quantities (ICAO)	Removed	
14.6	Instruction "passenger" (ICAO)	Removed	
14.6	Instruction "cargo" (ICAO)	Removed	
14.6	Transport category (ADR)	Removed	
14.6	Special provision (ADR)	Removed	
14.6	EAC code	Removed	
14.6	Excepted quantities (ADR)	Removed	
14.6	Limited quantities (ADR)	Removed	
14.6	Tunnel restriction code	Removed	
14.6	Hazard identification number (Kemler No.)	Removed	
14.6	Classification code (UN)	Removed	

Data sources

: dRR dossier.

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Full text of R-, H- and EUH-phrases::

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
R20	Harmful by inhalation
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R22	Harmful if swallowed
R36	Irritating to eyes
R38	Irritating to skin
R41	Risk of serious damage to eyes
R43	May cause sensitisation by skin contact
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product