SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SPORTAK

Version	Revision Date:	SDS Number:	Date of last issue: 20.08.2024
1.1	22.05.2025	50000536	Date of first issue: 20.08.2024

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

1.1 Product identifier

Product name SPORTAK

Other means of identification

Product code 50000536

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

Use of the Substance/Mixture : Fungicide

Recommended restrictions on use : Use as recommended by the label.
For professional users only.

1.3 Details of the supplier of the safety data sheet

Supplier Address

FMC Agricultural Solutions A/S
Thyborønvej 78
DK-7673 Harboøre
Denmark

Telephone: +45 9690 9690
Telefax: +45 9690 9691
E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
Denmark: +45-69918573 (CHEMTREC)

Medical emergency:
Denmark: +45 82 12 12 12

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Acute toxicity, Category 4	H302: Harmful if swallowed.

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Danger

Hazard statements :
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P261 Avoid breathing vapours or spray.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

Disposal:

P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

Hazardous components which must be listed on the label:

prochloraz (ISO)
ethylbenzene

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

For special phrases (SP) and safety intervals, consult the label.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
prochloraz (ISO)	67747-09-5 266-994-5 613-128-00-2	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity estimate	>= 30 - < 50

		Acute oral toxicity: 1.010 mg/kg	
xylene	1330-20-7 215-535-7 601-022-00-9	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Aquatic Chronic 3; H412	>= 25 - < 30
ethylbenzene	100-41-4 202-849-4 601-023-00-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 --- Acute toxicity estimate Acute inhalation toxicity (vapour): 17,8 mg/l	>= 2,5 - < 10
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	68953-96-8 273-234-6	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411 --- Acute toxicity estimate Acute dermal toxicity: 1.001 mg/kg	>= 3 - < 10
1-methoxy-2-propanol	107-98-2 203-539-1 603-064-00-3	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
2-methylpropan-1-ol	78-83-1 201-148-0 603-108-00-1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system)	>= 1 - < 3
toluene	108-88-3 203-625-9 601-021-00-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d STOT SE 3; H336 (Central nervous system) STOT RE 2; H373 Asp. Tox. 1; H304	>= 0,25 - < 1

		Aquatic Chronic 3; H412	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
Avoid inhalation, ingestion and contact with skin and eyes.
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

If inhaled : Remove to fresh air.
If unconscious, place in recovery position and seek medical advice.
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.

In case of skin contact : If on clothes, remove clothes.
If on skin, rinse well with water.
Wash off with soap and plenty of water.
Get medical attention immediately if irritation develops and persists.
Wash contaminated clothing before re-use.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : On contact, the first symptoms to appear may be irritation.
Ingestion or inhalation: symptoms of central nervous system depression.

Risks	:	Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically. Immediate medical attention is required in case of ingestion. The product contains petroleum distillates which may pose an aspiration pneumonia hazard.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Dry chemical, CO2, water spray or regular foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	Do not spread spilled material with high-pressure water streams. High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Fire may produce irritating, corrosive and/or toxic gases. Carbon oxides Nitrogen oxides (NOx) Hydrogen cyanide Hydrogen chloride Sulphur oxides Chlorine compounds Fluorine compounds

5.3 Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
For disposal considerations see section 13.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against : Do not spray on a naked flame or any incandescent material.

fire and explosion		Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage conditions	:	Protect against strong heat from sunshine or other source, e.g. fire. Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading “POISON” is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.
Recommended storage temperature	:	5 - 40 °C
Further information on storage stability	:	No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s)	:	Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			

		S	100 ppm 442 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			
		GV	25 ppm 109 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm 884 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		GV	50 ppm 217 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Carcinogenic substance, Guiding list of organic solvents.			
		S	100 ppm 434 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Carcinogenic substance, Guiding list of organic solvents.			
1-methoxy-2-propanol	107-98-2	STEL	150 ppm 568 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	100 ppm 375 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		GV	50 ppm 185 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			
		S	150 ppm 568 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			
2-methylpropan-1-ol	78-83-1	L	50 ppm 150 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			
toluene	108-88-3	TWA	50 ppm 192 mg/m3	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
		STEL	100 ppm 384 mg/m3	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake			

	through the skin			
		GV	25 ppm 94 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			
		S	100 ppm 384 mg/m3	DK OEL
	Further information: Means that the substance can be absorbed through the skin., Guiding list of organic solvents.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
xylene	Workers	Inhalation	Long-term systemic effects	221 mg/m3
	Workers	Inhalation	Acute systemic effects	442 mg/m3
	Workers	Inhalation	Long-term local effects	221 mg/m3
	Workers	Inhalation	Acute local effects	442 mg/m3
	Workers	Dermal	Long-term systemic effects	212 mg/kg
	Consumers	Inhalation	Long-term systemic effects	66,3 mg/m3
	Consumers	Inhalation	Acute systemic effects	260 mg/m3
	Consumers	Inhalation	Long-term local effects	65,3 mg/m3
	Consumers	Inhalation	Acute local effects	260 mg/m3
	Consumers	Dermal	Long-term systemic effects	125 mg/m3
	Consumers	Dermal	Long-term systemic effects	12,5 mg/kg
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	Workers	Inhalation	Long-term systemic effects	6 mg/m3
	Workers	Dermal	Long-term systemic effects	8,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,48 mg/m3
	Consumers	Dermal	Long-term systemic effects	4,25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,43 mg/kg bw/day
1-methoxy-2-propanol	Workers	Inhalation	Long-term systemic effects	369 mg/m3
	Workers	Inhalation	Acute systemic effects	553,5 mg/m3
	Workers	Inhalation	Acute local effects	553,5 mg/m3
	Workers	Dermal	Long-term systemic effects	183 mg/kg bw/day

	Consumers	Inhalation	Long-term systemic effects	43,9 mg/m3
	Consumers	Dermal	Long-term systemic effects	78 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	33 mg/kg bw/day
2-methylpropan-1-ol	Consumers	Inhalation	Long-term systemic effects	55 mg/m3
	Workers	Inhalation	Long-term systemic effects	310 mg/m3
toluene	Workers	Inhalation	Long-term systemic effects	192 mg/m3
	Workers	Inhalation	Acute systemic effects	384 mg/m3
	Workers	Inhalation	Long-term local effects	192 mg/m3
	Workers	Inhalation	Acute local effects	384 mg/m3
	Workers	Dermal	Long-term systemic effects	384 mg/m3
	Consumers	Inhalation	Long-term systemic effects	56,5 mg/m3
	Consumers	Inhalation	Long-term systemic effects	226 mg/m3
	Consumers	Inhalation	Long-term local effects	56,5 mg/m3
	Consumers	Inhalation	Acute local effects	226 mg/m3
	Consumers	Dermal	Long-term systemic effects	226 mg/kg
	Consumers	Oral	Long-term systemic effects	

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
xylene	Fresh water	0,327 mg/l
	Intermittent use (freshwater)	0,327 mg/l
	Marine water	0,327 mg/l
	Sewage treatment plant	6,58 mg/l
	Fresh water sediment	12,46 mg/kg
	Marine sediment	12,46 mg/kg
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	Fresh water	0,023 mg/l
	Marine water	0,002 mg/l
	Sewage treatment plant	5,5 mg/l
	Fresh water sediment	1,35 mg/kg
	Marine sediment	0,135 mg/kg
	Soil	0,124 mg/kg
	Intermittent use (freshwater)	0,290 mg/l
1-methoxy-2-propanol	Fresh water	10 mg/l
	Marine water	1 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	52,3 mg/kg dry

		weight (d.w.)
	Marine sediment	5,2 mg/kg dry weight (d.w.)
	Soil	4,59 mg/kg dry weight (d.w.)
	Intermittent use (freshwater)	100 mg/l
2-methylpropan-1-ol	Fresh water	0,4 mg/l
	Intermittent use/release	11 mg/l
	Marine water	0,04 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1,56 mg/kg dry weight (d.w.)
	Marine sediment	0,156 mg/kg dry weight (d.w.)
	Soil	0,076 mg/kg dry weight (d.w.)
toluene	Fresh water	0,68 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Protective measures : Plan first aid action before beginning work with this product.
Always have on hand a first-aid kit, together with proper instructions.
Ensure that eye flushing systems and safety showers are located close to the working place.
Wear suitable protective equipment.
When using do not eat, drink or smoke.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Form	:	suspension
Colour	:	yellowish-brown
Odour	:	aromatic
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	27 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	7 - 8 Concentration: 1 % In a 1% aqueous dispersion
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	1,07 (20 °C)
Relative vapour density	:	No data available
Particle characteristics		
Particle size	:	No data available
Particle Size Distribution	:	No data available

9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Miscibility with water	:	dispersible

SECTION 10: Stability and reactivity

10.1 Reactivity

To our knowledge, the product has no special reactivities.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	None known

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Avoid formation of aerosol.
Heating of the product will produce harmful and irritant vapours.
The product can be ignited by e.g. flame, spark or hot surface.

10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

10.6 Hazardous decomposition products

No hazardous decomposition products are known.
See subsection 5.2.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : LD50 (Rat, female): 2.263 mg/kg
Method: OECD Test Guideline 401

LD50 (Rat, male): 1.715 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, male and female): > 4.100 mg/kg
Method: OECD Test Guideline 402

Components:

prochloraz (ISO):

Acute oral toxicity : LD50 (Rat, female): ca. 1.010 mg/kg
Method: OECD Test Guideline 425
Symptoms: Breathing difficulties
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 2,16 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Method: OECD Test Guideline 403
Symptoms: Breathing difficulties
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Symptoms: Irritation
GLP: yes
Remarks: no mortality

xylene:

Acute oral toxicity : LD50 (Rat, male): 3.523 mg/kg
Method: Regulation (EC) No. 440/2008, Annex, B.1 bis

LD50 (Rat, female): > 4.000 mg/kg
Method: Regulation (EC) No. 440/2008, Annex, B.1 bis

Acute inhalation toxicity : LC50 (Rat, male and female): 27,6 mg/l, 6350 ppm
Exposure time: 4 h
Test atmosphere: vapour
Method: Regulation (EC) No. 440/2008, Annex, B.2

Acute dermal toxicity : LD50 (Rabbit, male): > 4.200 mg/kg

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 17,8 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit, male): 15.400 mg/kg

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Acute oral toxicity : LD0 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 401
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 1.000 - 1.600 mg/kg
Method: OECD Test Guideline 402

1-methoxy-2-propanol:

Acute oral toxicity : LD50 Oral (Rat, male): 3.739 mg/kg

LD50 Oral (Rat, female): 4.277 mg/kg

Acute inhalation toxicity : LC0 (Rat, male and female): > 25,8 mg/l, > 7000 ppm

Exposure time: 6 h
Test atmosphere: vapour
Remarks: no mortality

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg
Remarks: no mortality

2-methylpropan-1-ol:

Acute oral toxicity : LD50 (Rat): 3.350 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 18,18 mg/l
Exposure time: 6 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 2.460 mg/kg

toluene:

Acute oral toxicity : LD50 (Rat): 5.580 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 25,7 mg/l
Exposure time: 4 h
Test atmosphere: vapour

LC50 (Rat, female): 30 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : (Rabbit): 12.267 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

prochloraz (ISO):

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

xylene:

Species : Rabbit
Result : Skin irritation
Remarks : Based on data from similar materials

ethylbenzene:

Species	:	Rabbit
Remarks	:	Moderate skin irritation

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species	:	Rabbit
Result	:	Skin irritation

1-methoxy-2-propanol:

Species	:	Rabbit
Result	:	No skin irritation

2-methylpropan-1-ol:

Species	:	Rabbit
Result	:	Skin irritation

toluene:

Species	:	Rabbit
Assessment	:	Repeated exposure may cause skin dryness or cracking.
Result	:	Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irritation to eyes, reversing within 21 days
Remarks	:	May cause irreversible eye damage.

Components:

prochloraz (ISO):

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405
Result	:	Slight or no eye irritation
GLP	:	yes

ethylbenzene:

Species	:	Rabbit
Result	:	No eye irritation

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species	:	Rabbit

Result : Irreversible effects on the eye

1-methoxy-2-propanol:

Species : Rabbit
Result : No eye irritation

2-methylpropan-1-ol:

Species : Rabbit
Result : Irreversible effects on the eye

toluene:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Product:

Test Type : Buehler Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitisation by skin contact.

Components:

prochloraz (ISO):

Test Type : Local lymph node assay (LLNA)
Species : mice
Assessment : Not a skin sensitizer.
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

xylene:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.

1-methoxy-2-propanol:

Test Type	:	Maximisation Test
Exposure routes	:	Intradermal
Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.

2-methylpropan-1-ol:

Exposure routes	:	Skin contact
Result	:	Not a skin sensitizer.

toluene:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Result	:	Not a skin sensitizer.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

prochloraz (ISO):

Genotoxicity in vitro	:	Test Type: reverse mutation assay Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: mice (male and female) Application Route: Oral Method: OECD Test Guideline 474 Result: negative GLP: yes
Germ cell mutagenicity- Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.

xylene:

Genotoxicity in vitro	:	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Method: Regulation (EC) No. 440/2008, Annex, B.10 Result: negative Test Type: sister chromatid exchange assay

Test system: Chinese hamster ovary cells
Result: negative

Genotoxicity in vivo : Test Type: Rodent Dominant Lethal Assay
Species: Mouse (male)
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 478
Result: negative

ethylbenzene:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

Test Type: reverse mutation assay
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Oral
Result: negative
Remarks: Based on data from similar materials

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

1-methoxy-2-propanol:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Result: negative

Test Type: gene mutation test
Test system: Chinese hamster fibroblasts
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)

Cell type: Bone marrow
Application Route: Intraperitoneal injection
Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

2-methylpropan-1-ol:

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Result: negative

toluene:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
Species: Rat
Result: negative

Carcinogenicity

Based on available data, the classification criteria are not met.

Components:

prochloraz (ISO):

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

xylene:

Species : Rat
Application Route : Oral
Exposure time : 103 weeks
Result : negative

ethylbenzene:

Species : Mouse, male and female
Application Route : Inhalation
Exposure time : 104 weeks
Result : positive

1-methoxy-2-propanol:

Species : Rat, male and female
Application Route : inhalation (vapour)
Exposure time : 2 years
Dose : 300, 1000, 3000 ppm

	:	300 ppm
Method	:	OECD Test Guideline 453
Result	:	negative
Species	:	Mouse, male and female
Application Route	:	inhalation (vapour)
Exposure time	:	2 years
Dose	:	300, 1000, 3000 ppm
	:	1.000 ppm
Method	:	OECD Test Guideline 453
Result	:	negative
Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

prochloraz (ISO):

Reproductive toxicity - Assessment	:	No toxicity to reproduction

xylene:

Effects on fertility	:	Test Type: Two-generation study Species: Rat Application Route: inhalation (vapour) General Toxicity F1: NOAEC: 2,171 mg/l Result: negative Remarks: Based on data from similar materials
Effects on foetal development	:	Test Type: Pre-natal Species: Rat Application Route: inhalation (vapour) Symptoms: Maternal effects Result: negative Remarks: Based on data from similar materials

ethylbenzene:

Effects on fertility	:	Species: Rat, male and female Application Route: Inhalation Method: OECD Test Guideline 415 Result: negative
Effects on foetal development	:	Test Type: Embryo-foetal development Species: Rat, female Application Route: Inhalation Method: OECD Test Guideline 414 Result: negative

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Effects on fertility	:	Test Type: Three-generation study Species: Rat, male and female Application Route: Oral Dose: 14, 70, 350 mg/kg bw d General Toxicity - Parent: NOAEL: 350 mg/kg body weight General Toxicity F1: NOAEL: 350 mg/kg bw/day General Toxicity F2: NOAEL: 350 mg/kg bw/day Result: negative Remarks: Based on data from similar materials
Effects on foetal development	:	Test Type: reproductive and developmental toxicity study Species: Rat Application Route: Oral Dose: 0.2, 2.0, 300 and 600 mg/kg Duration of Single Treatment: 20 d General Toxicity Maternal: LOAEL: 600 mg/kg body weight Teratogenicity: LOAEL: 600 mg/kg bw/day Result: negative Remarks: Based on data from similar materials
Reproductive toxicity - Assessment	:	Weight of evidence does not support classification for reproductive toxicity

1-methoxy-2-propanol:

Effects on fertility	:	Test Type: Two-generation study Species: Rat, male and female Application Route: inhalation (vapour) Dose: 300, 1000, 3000 parts per million General Toxicity - Parent: LOAEL: 1.000 General Toxicity F1: LOAEL: 3.000 General Toxicity F2: 3.000 Method: OECD Test Guideline 416 Result: negative
Effects on foetal development	:	Test Type: reproductive and developmental toxicity study Species: Rabbit Application Route: Inhalation Dose: 0, 500, 1500, 3000 parts per million Duration of Single Treatment: 29 d General Toxicity Maternal: LOAEL: 3.000 part per million Teratogenicity: NOAEL: 3.000 part per million Method: OECD Test Guideline 414 Result: negative
Reproductive toxicity - Assessment	:	Weight of evidence does not support classification for reproductive toxicity

2-methylpropan-1-ol:

Effects on fertility	:	Species: Rat Application Route: Inhalation

Fertility: NOAEC Mating/Fertility: 7,5 mg/l

toluene:

Effects on foetal development	:	Species: Rat Application Route: Inhalation Result: Teratogenic effects Remarks: Adverse developmental effects were observed
Reproductive toxicity - Assessment	:	Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

Based on available data, the classification criteria are not met.

Components:

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Assessment	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.

1-methoxy-2-propanol:

Assessment	:	May cause drowsiness or dizziness.

2-methylpropan-1-ol:

Assessment	:	May cause respiratory irritation., May cause drowsiness or dizziness.

toluene:

Assessment	:	May cause drowsiness or dizziness.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Components:

ethylbenzene:

Exposure routes	:	Inhalation
Target Organs	:	hearing organs
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

toluene:

Exposure routes	:	Inhalation
Target Organs	:	inner ear
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Components:

prochloraz (ISO):

Species	:	Rat, male and female
LOAEL	:	6 mg/kg bw/day
Application Route	:	Oral
Exposure time	:	90 d
Dose	:	6, 25, 100 mg/kg bw/day
Symptoms	:	increased liver weight

Species	:	Mouse, male and female
LOAEL	:	25 mg/kg bw/day
Application Route	:	Oral
Exposure time	:	90 d
Dose	:	6, 25, 100, 400 mg/kg bw/day
Symptoms	:	increased liver weight

Species	:	Dog, male and female
NOAEL	:	2,5 mg/kg
LOAEL	:	7 mg/kg bw/day
Application Route	:	Oral
Exposure time	:	90 d
Dose	:	1, 2.5, 7, 20 mg/kg bw/day
Symptoms	:	increased liver weight

xylene:

Species	:	Rat
NOAEC	:	3,515 mg/l
Application Route	:	Inhalation
Exposure time	:	13 weeks

ethylbenzene:

Species	:	Rat, male and female
NOAEL	:	75 mg/kg
Application Route	:	Oral
Exposure time	:	28 days
Method	:	OECD Test Guideline 407

Species	:	Rat, male and female
NOAEL	:	250 ppm
LOAEL	:	75 ppm
Application Route	:	inhalation (vapour)
Exposure time	:	728 days
Method	:	OECD Test Guideline 453

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Species	:	Rat, male and female
NOAEL	:	40 mg/kg bw/day
LOAEL	:	115 mg/kg bw/day

Application Route	:	Oral - feed
Exposure time	:	6 months
Dose	:	40, 115, 340, 1030 mg/kg bw d
Remarks	:	Based on data from similar materials

1-methoxy-2-propanol:

Species	:	Rat, male
LOAEL	:	2757 mg/kg bw/day
Application Route	:	Oral
Exposure time	:	35 d
Dose	:	91.9,275.7,919,2757mg/kg
Species	:	Rat, male and female
NOEL	:	300 ppm
Application Route	:	inhalation (vapour)
Exposure time	:	2 years
Dose	:	300, 1000, 3000ppm
Method	:	OECD Test Guideline 453
Species	:	Rabbit, male
LOAEL	:	3676 mg/kg bw/day
Application Route	:	Skin contact
Exposure time	:	90d
Dose	:	1838,3676, 6433, 9190mg/kg

2-methylpropan-1-ol:

Species	:	Rat
	:	1450 mg/kg
Application Route	:	Oral
Species	:	Rat
	:	7,5 mg/l
Application Route	:	Inhalation

toluene:

Species	:	Rat
NOAEL	:	625 mg/kg
Application Route	:	Oral
Symptoms	:	central nervous system effects
Species	:	Rat
NOAEL	:	0,098 mg/l
Application Route	:	Inhalation
Test atmosphere	:	vapour
Species	:	Rat
LOAEL	:	2,261 mg/l
Application Route	:	Inhalation
Test atmosphere	:	vapour

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

May be fatal if swallowed and enters airways.

Components:

prochloraz (ISO):

The substance does not have properties associated with aspiration hazard potential.

ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

toluene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

prochloraz (ISO):

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

xylene:

General Information	:	Target Organs: inner ear Symptoms: hearing loss Target Organs: Central nervous system Symptoms: Drowsiness, Dizziness

ethylbenzene:

General Information : Target Organs: inner ear
Symptoms: hearing loss

Neurological effects

Components:

prochloraz (ISO):

Remarks : No neurotoxicity observed in animal studies

Further information

Product:

Remarks : On contact, the first symptoms to appear may be irritation.
Ingestion or inhalation: symptoms of central nervous system depression.

Remarks : Solvents may degrease the skin.

Components:

prochloraz (ISO):

Remarks : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Contact may cause slight irritation.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,92 mg/l
Exposure time: 96 h
Remarks: Based on data from a similar product.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,2 mg/l
Exposure time: 48 h
Remarks: Based on data from a similar product.

Toxicity to algae/aquatic plants : ErC50 (green algae): 0,026 mg/l
Exposure time: 72 h
Remarks: Based on data from a similar product.

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Components:

prochloraz (ISO):

Toxicity to fish	:	LC50 (Cyprinodon variegatus (sheepshead minnow)): 1,2 mg/l Exposure time: 96 h Test Type: static test GLP: yes LC50 (Lepomis macrochirus (Bluegill sunfish)): 2,2 mg/l Exposure time: 96 h Test Type: static test GLP: yes LC50 (Oncorhynchus mykiss (rainbow trout)): 1,5 mg/l Exposure time: 96 h Test Type: static test GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 4,3 mg/l Exposure time: 48 h Test Type: static test EC50 (Crassostrea virginica (atlantic oyster)): 0,69 - 1,3 mg/l Exposure time: 96 h Test Type: flow-through test GLP: yes LC50 (Mysidopsis bahia (opossum shrimp)): 0,86 mg/l Exposure time: 48 h GLP: yes
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 0,032 mg/l Exposure time: 72 h ErC50 (Lemna gibba (duckweed)): 0,109 mg/l Exposure time: 7 d
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,0485 mg/l Exposure time: 36 d Species: Pimephales promelas (fathead minnow) NOEC: 0,18 mg/l End point: mortality Exposure time: 28 d Species: Salmo gairdneri
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,0222 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity)	:	1
Toxicity to terrestrial organisms	:	LD50: 51 µg/bee End point: Acute contact toxicity Species: Apis mellifera (bees) LD50: 61 µg/bee End point: Acute oral toxicity Species: Apis mellifera (bees)

xylene:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l Exposure time: 96 h Test Type: Static renewal test Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 2,2 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: Based on data from similar materials NOEC (Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms	:	NOEC (activated sludge): 16 mg/l Exposure time: 28 h Method: OECD Test Guideline 301F
Toxicity to fish (Chronic toxicity)	:	NOEC: > 1,3 mg/l Exposure time: 56 d Species: Oncorhynchus mykiss (rainbow trout) Test Type: flow-through test Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,96 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea) Remarks: Based on data from similar materials
Toxicity to soil dwelling organisms	:	NOEC: 16 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Remarks: Based on data from similar materials

ethylbenzene:

Toxicity to fish	:	LC50 (Menidia menidia (Atlantic silverside)): 5,1 mg/l Exposure time: 96 h LC50 (Oncorhynchus mykiss (rainbow trout)): 4,2 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,8 mg/l Exposure time: 48 h EC50 (Ceriodaphnia dubia (water flea)): 3,2 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (algae)): 3,6 mg/l Exposure time: 96 h EC50 (Skeletonema costatum (marine diatom)): 7,7 mg/l Exposure time: 96 h
Toxicity to microorganisms	:	Method: OECD Test Guideline 209
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,25 - 3,4 mg/l Species: Fish Method: QSAR
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,96 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea)
Toxicity to soil dwelling organisms	:	0,047 mg/cm2 Exposure time: 48 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 31,6 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 62 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 29 mg/l Exposure time: 96 h Remarks: Based on data from similar materials NOEC (Pseudokirchneriella subcapitata (green algae)): 0,5 mg/l Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): 550 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0,23 mg/l
Exposure time: 72 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,18 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : NOEC: 250 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
Remarks: Based on data from similar materials

LC50: > 1.000 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207
Remarks: Based on data from similar materials

Plant toxicity : EC50: 167 mg/kg
Exposure time: 21 d
Species: Sorghum bicolor (sorghum)

80 mg/kg
Exposure time: 14 d
Species: Avena sativa (oats)

Toxicity to terrestrial organisms : EC10: 82 mg/kg
Exposure time: 21 d
Species: Hypoaspis aculeifer
Remarks: Information given is based on data obtained from similar substances.

1-methoxy-2-propanol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): >= 1.000 mg/l
Exposure time: 96 h
Test Type: semi-static test

LC50 (Pimephales promelas (fathead minnow)): 20.800 mg/l
Exposure time: 96 h
Test Type: static test

		LC50 (Leuciscus idus (Golden orfe)): 6.812 mg/l Exposure time: 96 h Test Type: static test Method: DIN 38412
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): 21.100 - 25.900 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l Exposure time: 7 d Test Type: static test
Toxicity to microorganisms	:	IC50 (activated sludge): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

2-methylpropan-1-ol:

Toxicity to fish	:	LC50 : 1.430 mg/l Exposure time: 4 d
Toxicity to daphnia and other aquatic invertebrates	:	EC50 : 1.100 mg/l Exposure time: 48 h
Toxicity to microorganisms	:	EC50 (Anabaena flos-aquae (cyanobacterium)): 593 - 1.799 mg/l Exposure time: 72 h IC50 (Natural microorganism): 1.000 mg/l Exposure time: 16 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 20 mg/l Exposure time: 21 d

toluene:

Toxicity to fish	:	LC50 (Fish): 5,5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 : 3,78 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	NOEC (Skeletonema costatum (marine diatom)): 10 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Bacteria): 134 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 1,4 mg/l Species: Oncorhynchus kisutch (coho salmon)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,74 mg/l Exposure time: 7 d Species: Ceriodaphnia sp.

12.2 Persistence and degradability

Product:

Biodegradability	:	Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

Components:

prochloraz (ISO):

Biodegradability	:	Result: Not readily biodegradable.

xylene:

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge, non-adapted Concentration: 16 mg/l Result: Readily biodegradable. Biodegradation: 98 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Based on data from similar materials Test Type: aerobic Inoculum: activated sludge, non-adapted Concentration: 16 mg/l Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Based on data from similar materials Test Type: aerobic Inoculum: activated sludge, non-adapted Concentration: 16,2 mg/l Result: Readily biodegradable. Biodegradation: 90 % Exposure time: 28 d Method: OECD Test Guideline 301F Remarks: Based on data from similar materials

ethylbenzene:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 79 % Exposure time: 10 d

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Not readily biodegradable.
Biodegradation: 2,9 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

Result: Inherently biodegradable.
Biodegradation: > 35 - 45 %
Exposure time: 10 d

1-methoxy-2-propanol:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Method: OECD Test Guideline 301E

2-methylpropan-1-ol:

Biodegradability : Result: Readily biodegradable.

toluene:

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

prochloraz (ISO):

Bioaccumulation : Remarks: The product may be accumulated in organisms.

Partition coefficient: n-octanol/water : log Pow: 4,12 (25 °C)

xylene:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Exposure time: 7 d
Concentration: 1,3 mg/l
Bioconcentration factor (BCF): > 4,9
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 3,2 (20 °C)
pH: 7
Remarks: Based on data from similar materials

log Pow: 3,12 (20 °C)
pH: 7
Remarks: Based on data from similar materials

log Pow: 3,15 (20 °C)
pH: 7

Remarks: Based on data from similar materials

log Pow: 3,15 (20 °C)
pH: 7
Remarks: Based on data from similar materials

ethylbenzene:

Bioaccumulation	:	Species: Fish Bioconcentration factor (BCF): 110
Partition coefficient: n-octanol/water	:	Pow: 4.170 (20 °C) log Pow: 3,03 - 3,6 (20 °C) pH: 7,84

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Bioaccumulation	:	Bioconcentration factor (BCF): 3,16 Method: QSAR
Partition coefficient: n-octanol/water	:	log Pow: 4,595 (20 °C)

1-methoxy-2-propanol:

Partition coefficient: n-octanol/water	:	log Pow: < 1 (20 °C) pH: 6,8

2-methylpropan-1-ol:

Bioaccumulation	:	Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n-octanol/water	:	Pow: 10 (25 °C)

toluene:

Bioaccumulation	:	Bioconcentration factor (BCF): 90
Partition coefficient: n-octanol/water	:	log Pow: 2,73 (20 °C)

12.4 Mobility in soil

Components:

prochloraz (ISO):

Distribution among environmental compartments	:	Remarks: immobile

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

prochloraz (ISO):

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

prochloraz (ISO):

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Triple rinse containers.

Do not re-use empty containers.
Packaging that is not properly emptied must be disposed of as the unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 1993
ADR	:	UN 1993
RID	:	UN 1993
IMDG	:	UN 1993
IATA	:	UN 1993

14.2 UN proper shipping name

ADN	:	FLAMMABLE LIQUID, N.O.S. (prochloraz, Xylene)
ADR	:	FLAMMABLE LIQUID, N.O.S. (prochloraz, Xylene)
RID	:	FLAMMABLE LIQUID, N.O.S. (prochloraz, Xylene)
IMDG	:	FLAMMABLE LIQUID, N.O.S. (prochloraz, Xylene)
IATA	:	Flammable liquid, n.o.s. (prochloraz, Xylene)

14.3 Transport hazard class(es)

		Class	Subsidiary risks
ADN	:	3	
ADR	:	3	
RID	:	3	
IMDG	:	3	
IATA	:	3	

14.4 Packing group

ADN

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3

ADR

Packing group	:	III

Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3
Tunnel restriction code	:	(D/E)

RID

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3

IMDG

Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft)	:	366
Packing instruction (LQ)	:	Y344
Packing group	:	III
Labels	:	Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft)	:	355
Packing instruction (LQ)	:	Y344
Packing group	:	III
Labels	:	Flammable Liquids

14.5 Environmental hazards

ADN

Environmentally hazardous	:	yes

ADR

Environmentally hazardous	:	yes

RID

Environmentally hazardous	:	yes

IMDG

Marine pollutant	:	yes

IATA (Passenger)

Environmentally hazardous	:	yes

IATA (Cargo)

Environmentally hazardous	:	yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 75, 48, 3 toluene (Number on list 48) If you intend to use this product as tattoo ink, please contact your vendor.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	E1	ENVIRONMENTAL HAZARDS
	P5c	FLAMMABLE LIQUIDS

Other regulations:

When evaluating a workplace, measures must be taken to ensure that employees are not exposed to conditions that may pose a risk during pregnancy or breastfeeding (cf. The Danish Working Environment Authority's Executive Order on The Performance of Work)

Young people under the age of 18 are not allowed to use or be exposed to the product professionally. Young people above the age of 15 are, however, except from this rule if the product is a necessary part of their education.

The substance/mixture is subject to the provisions of BEK nr 290 of 19/03/2024 (as amended)"Executive Or-	:	Ethylbenzene

der on measures to prevent the risks arising from work with carcinogenic, mutagenic or reprotoxic substances and materials" The work with this substance/mixture may pose a risk for cancer and/or reproductive toxicity.

The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

SECTION 16: Other information

Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.

H361d	:	Suspected of damaging the unborn child.
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.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Dam.	:	Serious eye damage
Flam. Liq.	:	Flammable liquids
Repr.	:	Reproductive toxicity
Skin Irrit.	:	Skin irritation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2006/15/EC	:	Europe. Indicative occupational exposure limit values
DK OEL	:	Denmark. Occupational Exposure Limits
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2006/15/EC / TWA	:	Limit Value - eight hours
2006/15/EC / STEL	:	Short term exposure limit
DK OEL / S	:	Exposure period of 15 minutes
DK OEL / GV	:	Long term exposure limit
DK OEL / L	:	Ceiling

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office

of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		**Classification procedure:**
Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H302	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Based on product data or assessment
Skin Sens. 1	H317	Based on product data or assessment
Asp. Tox. 1	H304	Based on product data or assessment
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Based on product data or assessment

Disclaimer
FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to ensure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared by

FMC Corporation

DK / 6N