

Custom NP Pesticides Mix

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 03/03/2018

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Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : Custom NP Pesticides Mix
Product code : AL0-130254
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Laboratory Use
Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Certified reference material for laboratory use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Phenova
6390 Joyce Dr. Suite 100
80403 Golden, CO - United States
T 1-866-942-2978 - F 1-866-283-0269
info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number : ChemTel Assistance (US/Canada) 1-800-255-3924
ChemTel Assistance (International) +1 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2	H225
Eye Irrit. 2	H319
STOT SE 3	H336
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11
Xi; R36
N; R50/53
R5
R66
R67

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02



GHS07



GHS09

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Signal word (CLP)	: Danger
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapor H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P370+P378 - In case of fire: Use media other than water to extinguish P391 - Collect spillage P403+P235 - Store in a well-ventilated place. Keep cool P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
EUH phrases	: EUH066 - Repeated exposure may cause skin dryness or cracking
No labeling applicable	

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone (Component)	(CAS No) 67-64-1 (EC-No.) 200-662-2 (EC index no) 606-001-00-8	97.8	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
acetochlor (Component)	(CAS No) 34256-82-1 (EC-No.) 251-899-3 (EC index no) 616-037-00-6	0.05	Carc. 2, H351 Repr. 2, H361f Skin Sens. 1, H317 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=100)
alachlor (Component)	(CAS No) 15972-60-8 (EC-No.) 240-110-8 (EC index no) 616-015-00-6	0.05	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ametryn (Component)	(CAS No) 834-12-8 (EC-No.) 212-634-7 (EC index no) 613-010-00-0	0.05	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
azinphos-methyl (Component)	(CAS No) 86-50-0 (EC-No.) 201-676-1 (EC index no) 015-039-00-9	0.05	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
bifenthrin (Component)	(CAS No) 82657-04-3 (EC index no) 607-699-00-7	0.05	Carc. 2, H351 Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Inhalation), H331 STOT RE 1, H372 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=100000) Aquatic Chronic 1, H410
s,s,s-Tributylphosphorotrithioate (Component)	(CAS No) 78-48-8 (EC-No.) 201-120-8	0.05	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethion (Component)	(CAS No) 563-12-2 (EC-No.) 209-242-3 (EC index no) 015-047-00-2	0.05	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
parathion (Component)	(CAS No) 56-38-2 (EC-No.) 200-271-7 (EC index no) 015-034-00-1	0.05	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
hexazinone (Component)	(CAS No) 51235-04-2 (EC-No.) 257-074-4 (EC index no) 613-132-00-4	0.05	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
malathion (Component)	(CAS No) 121-75-5 (EC-No.) 204-497-7 (EC index no) 015-041-00-X	0.05	Acute Tox. 3 (Oral), H301 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
methyl parathion (Component)	(CAS No) 298-00-0 (EC-No.) 206-050-1 (EC index no) 015-035-00-7	0.05	Flam. Liq. 3, H226 Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
permethrin (Component)	(CAS No) 52645-53-1 (EC-No.) 258-067-9 (EC index no) 613-058-00-2	0.05	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
metribuzin (Component)	(CAS No) 21087-64-9 (EC-No.) 244-209-7 (EC index no) 606-034-00-8	0.05	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Prometon (Component)	(CAS No) 1610-18-0 (EC-No.) 216-548-0	0.05	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10)
molinate (Component)	(CAS No) 2212-67-1 (EC-No.) 218-661-0 (EC index no) 613-051-00-4	0.05	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Carc. 2, H351 Repr. 2, H361f STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Repeated exposure may cause skin dryness or cracking.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/effects after inhalation : May cause drowsiness or dizziness.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapor.
- Explosion hazard : May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Heating may cause an explosion.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up in absorbent material. Collect spillage.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking.
- Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.
- Storage conditions : Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
- Incompatible materials : Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

alachlor (15972-60-8)		
Belgium	Limit value (mg/m ³)	1 mg/m ³ (Alachlore (vapeur et aérosol); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.1 ppm (Alachlore (vapeur et aérosol); Belgium; Time-weighted average exposure limit 8 h)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (Alachlor; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
azinphos-methyl (86-50-0)		
Belgium	Limit value (mg/m ³)	0.2 mg/m ³ (Azinphos méthyle; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	0.2 mg/m ³ (Azinphos-méthyl; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)

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azinphos-methyl (86-50-0)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ (Azinphos-methyl; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
ethion (563-12-2)		
Belgium	Limit value (mg/m ³)	0.05 mg/m ³ (Ethion (vapeur et aérosol); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	0.4 mg/m ³ (Diéthion; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.05 mg/m ³ (Ethion; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
parathion (56-38-2)		
Belgium	Limit value (mg/m ³)	0.05 mg/m ³ (Parathion (vapeur et aérosol); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	0.1 mg/m ³ (Parathion; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.05 mg/m ³ (Parathion; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
malathion (121-75-5)		
Belgium	Limit value (mg/m ³)	1 mg/m ³ (Malathion (vapeur et aérosol); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	10 mg/m ³ (Malathion; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (Malathion; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ Malathion (ISO); United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
methyl parathion (298-00-0)		
Belgium	Limit value (mg/m ³)	0.2 mg/m ³ (Parathion-méthyl; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	0.2 mg/m ³ (Parathion-méthyle; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.02 mg/m ³ (Methyl parathion; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
metribuzin (21087-64-9)		
Belgium	Limit value (mg/m ³)	5 mg/m ³ (Métribuzine; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	5 mg/m ³ (Métribuzine; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (Metribuzin; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
acetone (67-64-1)		
EU	IOELV TWA (mg/m ³)	1210 mg/m ³ (Acetone; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	500 ppm (Acetone; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m ³)	1210 mg/m ³ (Acétone; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	500 ppm (Acétone; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m ³)	2420 mg/m ³ (Acétone; Belgium; Short time value)
Belgium	Short time value (ppm)	1000 ppm (Acétone; Belgium; Short time value)
France	VLE (mg/m ³)	2420 mg/m ³ (Acétone; France; Short time value; VRC: Valeur réglementaire contraignante)

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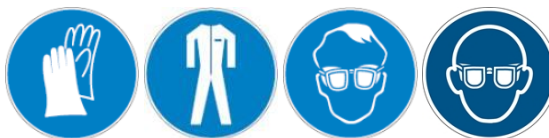
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acetone (67-64-1)		
France	VLE (ppm)	1000 ppm (Acétone; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m ³)	1210 mg/m ³ (Acétone; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	500 ppm (Acétone; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	500 ppm (Acetone; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	750 ppm (Acetone; USA; Short time value; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	1210 mg/m ³ (Aceton; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	501 ppm (Aceton; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	2420 mg/m ³ (Aceton; Netherlands; Short time value; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 15MIN (ppm)	1002 ppm (Aceton; Netherlands; Short time value; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m ³)	1210 mg/m ³ Acetone; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	500 ppm Acetone; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m ³)	3620 mg/m ³ Acetone; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	1500 ppm Acetone; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

Appropriate engineering controls : Either local exhaust or general room ventilation is usually required.
 Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.



Hand protection : Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
 Eye protection : Chemical goggles or safety glasses. Safety glasses.
 Skin and body protection : Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
 Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
 Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
 Color : Colorless.
 Odor : characteristic.
 pH : No data available
 Melting point : No data available
 Freezing point : No data available
 Boiling point : No data available
 Flash point : No data available
 Auto-ignition temperature : No data available
 Decomposition temperature : No data available
 Flammability (solid, gas) : Highly flammable liquid and vapor

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Relative density	: No data available
Solubility	: No data available
Explosive properties	: Heating may cause an explosion.
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture. Heating may cause an explosion. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

acetochlor (34256-82-1)	
LD50 oral rat	4015 mg/kg body weight (EPA OPP 81-1: Acute Oral Toxicity, Rat, Female, Experimental value)
LD50 dermal rat	> 2060 mg/kg body weight (EPA OPP 81-2, 24 h, Rat, Male/female, Experimental value)
LC50 inhalation rat (mg/l)	3.99 mg/l/4h (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Female, Experimental value)
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h
alachlor (15972-60-8)	
LD50 oral rat	930 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	3500 mg/kg (Rabbit)
ATE CLP (oral)	930 mg/kg body weight
ATE CLP (dermal)	3500 mg/kg body weight
ametryn (834-12-8)	
LD50 oral rat	508 - 1750 mg/kg (Rat)
LD50 dermal rat	> 3000 mg/kg (Rat)
LD50 dermal rabbit	> 8160 mg/kg (Rabbit)
ATE CLP (oral)	508 mg/kg body weight
azinphos-methyl (86-50-0)	
LD50 oral rat	10 mg/kg (Rat)
LD50 dermal rat	150 - 220 mg/kg (Rat)
LC50 inhalation rat (mg/l)	0.15 mg/l/4h (Rat)
ATE CLP (oral)	10 mg/kg body weight
ATE CLP (dermal)	150 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.15 mg/l/4h
ATE CLP (dust, mist)	0.15 mg/l/4h
bifenthrin (82657-04-3)	
LD50 oral rat	168 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; Other)

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bifenthrin (82657-04-3)	
LC50 inhalation rat (mg/l)	0.8 mg/l/4h (Rat; Experimental value)
s,s,s-Tributylphosphorotrithioate (78-48-8)	
LD50 oral rat	150 mg/kg
LD50 dermal rabbit	97 mg/kg
ATE CLP (oral)	150 mg/kg body weight
ATE CLP (dermal)	97 mg/kg body weight
ethion (563-12-2)	
LD50 oral rat	27 mg/kg (Rat)
LD50 dermal rabbit	915 mg/kg (Rabbit)
ATE CLP (oral)	27 mg/kg body weight
ATE CLP (dermal)	915 mg/kg body weight
parathion (56-38-2)	
LD50 oral rat	2 mg/kg (Rat)
LD50 dermal rat	73 mg/kg (Rat)
LD50 dermal rabbit	40 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.03 mg/l/4h (Rat)
ATE CLP (oral)	2 mg/kg body weight
ATE CLP (dermal)	40 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.03 mg/l/4h
ATE CLP (dust, mist)	0.03 mg/l/4h
hexazinone (51235-04-2)	
LD50 oral rat	1690 mg/kg (Rat)
LD50 dermal rat	5278 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE CLP (oral)	1690 mg/kg body weight
ATE CLP (dermal)	5278 mg/kg body weight
malathion (121-75-5)	
LD50 oral rat	290 mg/kg (Rat)
LD50 dermal rat	4444 mg/kg (Rat)
LD50 dermal rabbit	4100 mg/kg (Rabbit)
ATE CLP (oral)	290 mg/kg body weight
ATE CLP (dermal)	4100 mg/kg body weight
methyl parathion (298-00-0)	
LD50 oral rat	6 mg/kg (Rat)
LD50 dermal rat	67 mg/kg (Rat)
LD50 dermal rabbit	300 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.034 mg/l/4h (Rat)
ATE CLP (oral)	6 mg/kg body weight
ATE CLP (dermal)	67 mg/kg body weight
ATE CLP (gases)	100 ppmV/4h
ATE CLP (vapors)	0.034 mg/l/4h
ATE CLP (dust, mist)	0.034 mg/l/4h
metribuzin (21087-64-9)	
LD50 oral rat	1100 mg/kg (Rat)
LD50 dermal rat	2000 mg/kg (Rat)
LD50 dermal rabbit	> 20000 mg/kg (Rabbit)
ATE CLP (oral)	1100 mg/kg body weight
ATE CLP (dermal)	2000 mg/kg body weight
molinate (2212-67-1)	
LD50 oral rat	369 - 450 mg/kg (Rat)
LD50 dermal rat	1167 mg/kg (Rat)
LD50 dermal rabbit	3536 mg/kg (Rabbit)
ATE CLP (oral)	369 mg/kg body weight
ATE CLP (dermal)	1167 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h

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molinate (2212-67-1)	
ATE CLP (dust, mist)	1.5 mg/l/4h
permethrin (52645-53-1)	
LD50 oral rat	> 383 mg/kg (Rat)
LD50 dermal rat	4000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE CLP (oral)	500 mg/kg body weight
ATE CLP (dermal)	4000 mg/kg body weight
ATE CLP (gases)	4500 ppmV/4h
ATE CLP (vapors)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h
Prometon (1610-18-0)	
LD50 oral rat	503 mg/kg
LD50 dermal rabbit	2200 mg/kg
ATE CLP (oral)	503 mg/kg body weight
ATE CLP (dermal)	2200 mg/kg body weight
acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	20000 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; >7426 mg/kg bodyweight; Rabbit; Weight of evidence)
LC50 inhalation rat (mg/l)	71 mg/l/4h (Rat; Experimental value; 76 mg/l/4h; Rat; Experimental value)
LC50 inhalation rat (ppm)	30000 ppm/4h (Rat; Experimental value)
ATE CLP (oral)	5800 mg/kg body weight
ATE CLP (dermal)	20000 mg/kg body weight
ATE CLP (gases)	30000 ppmV/4h
ATE CLP (vapors)	71 mg/l/4h
ATE CLP (dust, mist)	71 mg/l/4h

Skin corrosion/irritation	: Not classified Repeated exposure may cause skin dryness or cracking
Serious eye damage/irritation	: Causes serious eye irritation. Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met May cause cancer
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

acetochlor (34256-82-1)	
LC50 fish 1	0.36 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Experimental value)
EC50 Daphnia 1	8.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value)
ErC50 (algae)	0.00052 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum, Static system, Experimental value)

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alachlor (15972-60-8)	
LC50 fish 1	1.8 mg/l (LC50; 96 h)
Threshold limit algae 1	0.35 mg/l (EC50)
ametryn (834-12-8)	
EC50 Daphnia 1	40 mg/l (EC50; 48 h)
LC50 fish 2	3.2 mg/l (LC50; 96 h)
Threshold limit algae 1	0.01 mg/l (EC50)
azinphos-methyl (86-50-0)	
LC50 fish 1	0.004 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.003 mg/l (EC50; 48 h)
bifenthrin (82657-04-3)	
LC50 fish 1	0.1 µg/l (LC50; EPA method, Equivalent or similar to OECD 203; 96 h; Oncorhynchus mykiss; Flow-through system)
EC50 Daphnia 1	0.11 µg/l (EC50; EPA OPP 72-2; 48 h; Daphnia magna; Flow-through system)
s,s,s-Tributylphosphorotrithioate (78-48-8)	
LC50 fish 1	0.31 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 Daphnia 1	0.007 mg/l
parathion (56-38-2)	
EC50 Daphnia 1	0.0025 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
LC50 fish 2	0.75 mg/l (LC50; 96 h)
hexazinone (51235-04-2)	
LC50 fish 1	> 320 mg/l (LC50; 96 h)
EC50 other aquatic organisms 1	0.085 mg/l (120 h; Selenastrum capricornutum)
EC50 Daphnia 2	151 - 442 mg/l (LC50; 48 h)
Threshold limit algae 1	0.056 mg/l (EC50; 72 h)
malathion (121-75-5)	
EC50 Daphnia 1	0.0008 mg/l (EC50; 48 h)
LC50 fish 2	0.17 mg/l (LC50; 96 h)
methyl parathion (298-00-0)	
LC50 fish 1	2.7 - 3.7 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.00014 mg/l (EC50; 48 h)
molinat (2212-67-1)	
EC50 Daphnia 1	0.6 mg/l (LC50; 96 h)
LC50 fish 2	1.3 mg/l (LC50; 96 h)
permethrin (52645-53-1)	
LC50 fish 1	0.0025 mg/l (LC50; 96 h)
EC50 Daphnia 1	0.00043 mg/l (EC50; 48 h)
Threshold limit algae 1	.68 - .72, EC50
Prometon (1610-18-0)	
LC50 fish 1	12 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 Daphnia 1	59.8 µg/l
acetone (67-64-1)	
LC50 fish 2	5540 mg/l (LC50; EU Method C.1; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)
EC50 Daphnia 2	12600 mg/l (LC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)

12.2. Persistence and degradability

Custom NP Pesticides Mix	
Persistence and degradability	May cause long-term adverse effects in the environment.
acetochlor (34256-82-1)	
Persistence and degradability	Not readily biodegradable in water.
alachlor (15972-60-8)	
Persistence and degradability	Biodegradability in soil: no data available.
ametryn (834-12-8)	
Persistence and degradability	Not readily biodegradable in water.

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azinphos-methyl (86-50-0)	
Persistence and degradability	Not readily biodegradable in water.
bifenthrin (82657-04-3)	
Persistence and degradability	Not readily biodegradable in water. Low potential for mobility in soil.
parathion (56-38-2)	
Persistence and degradability	Biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil.
hexazinone (51235-04-2)	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.
malathion (121-75-5)	
Persistence and degradability	Biodegradable in the soil.
methyl parathion (298-00-0)	
Persistence and degradability	Not readily biodegradable in water. Adsorbs into the soil. Photolysis in the air.
molinate (2212-67-1)	
Persistence and degradability	Not readily biodegradable in water.
acetone (67-64-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance
ThOD	2.2 g O ₂ /g substance
BOD (% of ThOD)	0.872 (20 days; Literature study)
12.3. Bioaccumulative potential	
Custom NP Pesticides Mix	
Bioaccumulative potential	Not established.
acetochlor (34256-82-1)	
BCF fish 1	20 - 132 (Pisces)
Log Pow	4.14 (EU Method A.8: Partition Coefficient, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
ametryn (834-12-8)	
Log Pow	2.6 - 3.07
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
azinphos-methyl (86-50-0)	
Log Pow	2.99
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
bifenthrin (82657-04-3)	
Log Pow	> 6
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
s,s,s-Tributylphosphorotrithioate (78-48-8)	
BCF fish 1	>= 1.2 mg/l Oncorhynchus mykiss (Rainbow trout)
Bioconcentration factor (BCF REACH)	1084
ethion (563-12-2)	
Log Pow	5.07
Bioaccumulative potential	Not bioaccumulative.
parathion (56-38-2)	
BCF fish 1	335 (BCF; 912 h)
BCF fish 2	462 (BCF; 72 h)
BCF other aquatic organisms 1	240 (BCF; 999 h)
BCF other aquatic organisms 2	97 (BCF; 792 h)
Log Pow	3.8
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
hexazinone (51235-04-2)	
Log Pow	1.85 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
malathion (121-75-5)	
Log Pow	2.36 - 2.89

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malathion (121-75-5)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
methyl parathion (298-00-0)	
Log Pow	2.86
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
metribuzin (21087-64-9)	
BCF other aquatic organisms 1	59 (BCF; 24 h)
Log Pow	1.7
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
molinate (2212-67-1)	
BCF fish 1	26.6 (BCF)
BCF fish 2	30 (BCF)
Log Pow	2.88
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
permethrin (52645-53-1)	
BCF fish 1	560 (BCF)
BCF fish 2	480 (BCF)
BCF other aquatic organisms 1	0.1 mg/l (BCF; >24 h)
BCF other aquatic organisms 2	1900 (BCF)
Log Pow	3.48 - 6.5
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
acetone (67-64-1)	
BCF fish 1	0.69 (BCF)
BCF other aquatic organisms 1	3 (BCF; BCFWIN)
Log Pow	-0.24 (Test data)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
acetochlor (34256-82-1)	
Surface tension	46.3 mN/m (20 °C, 90 %)
Ecology - soil	Adsorbs into the soil. Not toxic to bees.
alachlor (15972-60-8)	
Ecology - soil	Not toxic to bees in normal conditions of use.
ametryn (834-12-8)	
Ecology - soil	Not toxic to bees.
azinphos-methyl (86-50-0)	
Ecology - soil	Toxic to bees.
bifenthrin (82657-04-3)	
Log Koc	Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method; 236610; Experimental value
ethion (563-12-2)	
Ecology - soil	Toxic to bees.
parathion (56-38-2)	
Surface tension	0.039 N/m (25 °C)
Ecology - soil	Toxic to bees.
hexazinone (51235-04-2)	
Ecology - soil	Not toxic to bees.
malathion (121-75-5)	
Surface tension	0.037 N/m (24 °C)
Ecology - soil	Toxic to bees. Not toxic to plants.
methyl parathion (298-00-0)	
Ecology - soil	Not toxic to plants. Toxic to bees.
metribuzin (21087-64-9)	
Ecology - soil	Toxic to flora. Not toxic to bees.
permethrin (52645-53-1)	
Ecology - soil	Toxic to bees.

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acetone (67-64-1)

Surface tension	0.0237 N/m
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapors are flammable. Hazardous waste due to potential risk of explosion.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 1993

UN-No. (IATA) : 1993

UN-No. (IMDG) : 1993

UN-No. (ADN) : 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (IATA) : Flammable liquid, n.o.s.

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (ADN) : FLAMMABLE LIQUID, N.O.S.

Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS

14.3. Packing group

Class (ADR) : 3

Classification code (ADR) : F1

Class (IATA) : 3

Class (IMDG) : 3

Class (ADN) : 3

Classification code (ADN) : F1

Hazard labels (ADR) : 3



Hazard labels (IATA) : 3



Hazard labels (IMDG) : 3



Hazard labels (ADN) : 3



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14.4. Packing group

Packing group (ADR)	: II
Packing group (IATA)	: II
Packing group (IMDG)	: II
Packing group (ADN)	: II

14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Orange plates	:



Special provision (ADR)	: 274, 601, 640C
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2

14.6.2. Transport by sea

Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP8, TP28
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: B

14.6.3. Air transport

CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
PCA packing instructions (IATA)	: 353
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA max net quantity (IATA)	: 5L
PCA Excepted quantities (IATA)	: E2
Special provision (IATA)	: A3
ERG code (IATA)	: 3H

14.6.4. Inland waterway transport

Special provision (ADN)	: 274, 601, 640D
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
Carriage prohibited (ADN)	: No

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

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany

Water hazard class (WGK) : 3 - strongly hazardous to water

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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

Other information : None.

PHV SDS EU

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