

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

RODICAL® InsectProtect

Product no.

-

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

NA

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

R2 Group A/S
Odinsvej 23
DK-8722 Hedensted
tlf: +45 76752100
fax: +45 75890828

Contact person

Jan Skov Nørby

E-mail

jsn@r2group.eu

SDS date

25-11-2015

SDS Version

2.0

1.4. Emergency telephone number

Use your national or local emergency number
See section 4 "First aid measures"

SECTION 2: Hazards identification

▼ 2.1. Classification of the substance or mixture

Aquatic Chronic 1; H410
EUH208

See full text of H-phrases in section 2.2.

2.2. Label elements

▼ Hazard pictogram(s)



▼ Signal word

Warning



Hazard statement(s)

Very toxic to aquatic life with long lasting effects. (H410)

▼ Safety statement(s)	General	-
	Prevention	Avoid release to the environment. (P273).
	Response	Collect spillage. (P391).
	Storage	-
▼ Identity of the substances primarily responsible for the major health hazards	Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

2.3. Other hazards

This product contains an organic solvent. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.

▼ Additional labelling

Contains m-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylat. May produce an allergic reaction. (EUH208)

Additional warnings

-

VOC

-

SECTION 3: Composition/information on ingredients

▼ 3.1/3.2. Substances/Mixtures

NAME: (2-methoxymethylethoxy)propanol
IDENTIFICATION NOS.: CAS-no: 34590-94-8 EC-no: 252-104-2 REACH-no: 01-2119450011-60
CONTENT: 1-3%
CLP CLASSIFICATION: NA
NOTE: S

NAME: 1-butoxypropan-2-ol
IDENTIFICATION NOS.: CAS-no: 5131-66-8 EC-no: 225-878-4 Index-no: 603-052-00-8
CONTENT: 1-3%
CLP CLASSIFICATION: Skin Irrit. 2, Eye Irrit. 2
H315, H319
NOTE: S

NAME: EHTOXYLATED POLY ARYLPHENOL
IDENTIFICATION NOS.: CAS-no: 99734-09-5 Index-no: 00042
CONTENT: 1-3%
CLP CLASSIFICATION: Aquatic Chronic 3
H412

NAME: m-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylat
IDENTIFICATION NOS.: CAS-no: 52645-53-1 EC-no: 258-067-9 Index-no: 613-058-00-2
CONTENT: <1%
CLP CLASSIFICATION: Acute Tox. 4, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1
H302, H317, H332, H400, H410 (M-acute = 100) (M-chronic = 1000)

(*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.
S = Organic solvent

Other informations

ATEmix(inhale, vapour) = 5,336 - 8,004
ATEmix(oral) = 888,888 - 1333,332
Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 12 - 18
N chronic (CAT 1) Sum = Sum(Ci/M(chronic))*25) = 1,44 - 2,16
N acute (CAT 1) Sum = Sum(Ci/M(acute))*25) = 1,44 - 2,16

SECTION 4: First aid measures

4.1. Description of first aid measures

▼ General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

▼ Inhalation

Get the person into fresh air and stay with them.

▼ Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

▼ Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If irritation continues, contact a doctor.

▼ Ingestion

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

Burns

Not applicable

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

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

This product contains substances that may cause an allergic reaction in people who are already so disposed.

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

No special

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

▼ 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

▼ 5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

▼ 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

▼ 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of a leakage to the surroundings, contact the local environmental authorities. Consider putting up waste collecting trays/basins to prevent leakage to the surroundings.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

6.4. Reference to other sections

See section on "Disposal" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

▼ 7.1. Precautions for safe handling

Consider putting up waste collecting trays/basins to prevent leakage to the surroundings. See section on 'Exposure controls/personal protection' for information on personal protection.

▼ 7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original.

▼ Storage temperature

No data available.

▼ 7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

▼ OEL

(2-methoxymethylethoxy)propanol (EH40/2005)

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 308 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Comments: Sk (Sk = Can be absorbed through skin.)

▼ DNEL / PNEC

No data available.

8.2. Exposure controls

▼ Compliance with the stated exposure limits values should be checked on a regular basis.

General recommendations

▼ Observe general occupational hygiene.

Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

▼ Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

▼ Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

▼ Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

▼ Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment



▼ Generally

Use only CE marked protective equipment.

▼ Respiratory Equipment

No specific requirements.

▼ Skin protection

No specific requirements.

▼ Hand protection

Recommended: Nitrile rubber. . : NA

Eye protection

Use face shield. Use safety glasses with a side shield as an alternative.

SECTION 9: Physical and chemical properties

▼ 9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm ³)
Liquid	Colourless	Mild	4,5	-	-

Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-	-

▼ Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
101	-	-

Explosion limits (Vol %)	Oxidizing properties
-	-

Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

9.2. Other information

Solubility in fat	Additional information
-	N/A

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in the section on "Handling and storage".

10.3. Possibility of hazardous reactions

No special

10.4. Conditions to avoid

Do not expose to heat (e.g. sunlight), because it can lead to excess pressure.

▼ 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

▼ Acute toxicity

Substance	Species	Test	Route of exposure	Result
m-phenoxybenzyl-3-(2,2-dichlor...	Rat	LD50	Dermal	>2000 mg/kg bw
m-phenoxybenzyl-3-(2,2-dichlor...	Rat	LD50	Oral	>2000 mg/kg bw
m-phenoxybenzyl-3-(2,2-dichlor...	Rat	LC50	Inhalation	>0,45 mg/l (MAC)
(2-methoxymethylethoxy)propano...	Rabbit	LD50	Dermal	>19020 mg/kg
(2-methoxymethylethoxy)propano...	Rat	LD50	Oral	>5000 mg/kg
(2-methoxymethylethoxy)propano...	Rat	LC50	Inhalation	>275 ppm (7 timer)

▼ Skin corrosion/irritation

Data on substance: (2-methoxymethylethoxy)propanol

Test: OECD Guideline 404

Organism: Rabbit

Duration of Exposure: -

Observation Period: -

Result: Ikke irriterende

Data on substance: m-phenoxybenzyl-3-(2,2-dichlorvinyl)-2,2-dimethylcyclopropanocarboxylat

Test: no guideline followed

Organism: Rabbit

Duration of Exposure: -

Observation Period: -

Result: Slight- irritant to skin of rabbits

▼ Serious eye damage/irritation

Data on substance: m-phenoxybenzyl-3-(2,2-dichlorvinyl)-2,2-dimethylcyclopropanocarboxylat

Test: no guideline followed
Organism: Rabbit
Duration of Exposure: -
Observation Period: -
Result: Mild-irritant to eyes og rabbits

Data on substance: (2-methoxymethylethoxy)propanol
Test: no guideline followed
Result: Ikke irriterende

▼ **Respiratory or skin sensitisation**

No data available. Data on substance: m-phenoxybenzyl-3-(2,2-dichlorvinyl)-2,2-dimethylcyclopropanocarboxylat
Organism: Guinea pigs
Duration of Exposure: -
Observation Period: -
Result: Non-Sensitiser

▼ **Germ cell mutagenicity**

Data on substance: m-phenoxybenzyl-3-(2,2-dichlorvinyl)-2,2-dimethylcyclopropanocarboxylat
No adverse effect observed.

Data on substance: (2-methoxymethylethoxy)propanol
No adverse effect observed.

▼ **Carcinogenicity**

Data on substance: m-phenoxybenzyl-3-(2,2-dichlorvinyl)-2,2-dimethylcyclopropanocarboxylat
No adverse effect observed.

Data on substance: (2-methoxymethylethoxy)propanol
Test: -

Organism: Rat
No adverse effect observed.

▼ **Reproductive toxicity**

Data on substance: m-phenoxybenzyl-3-(2,2-dichlorvinyl)-2,2-dimethylcyclopropanocarboxylat
No adverse effect observed.

Data on substance: (2-methoxymethylethoxy)propanol
Test: OECD 421
Organism: Rat
No adverse effect observed.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

▼ **Long term effects**

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

This product contains substances that may cause an allergic reaction in people who are already so disposed.

SECTION 12: Ecological information

▼ 12.1. Toxicity

Substance	Species	Test	Test duration	Result
m-phenoxybenzyl-3-(2,2-dichlor...	Daphnia	EC50	24 hour	0,020 mg/l
m-phenoxybenzyl-3-(2,2-dichlor...	Fish	LC50	96 hour	8,9 microgram/l
m-phenoxybenzyl-3-(2,2-dichlor...	Fish	LC50	96 hour	Guppy
m-phenoxybenzyl-3-(2,2-dichlor...	Algae	EC50	72 hour	0,145 mg/l Carp
(2-methoxymethylethoxy)propano...	Fish	LC50	96 timer	>0,022 mg/l
(2-methoxymethylethoxy)propano...	Daphnia	LC50	96 timer	>1000 mg/l
(2-methoxymethylethoxy)propano...	Algae	NOEC	72 timer	>1000 mg/l
(2-methoxymethylethoxy)propano...	Daphnia	NOEC	22 dage	969 mg/l
				0,5 mg/l

▼ 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
m-phenoxybenzyl-3-(2,2-dichlor...	Yes	No data available	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
m-phenoxybenzyl-3-(2,2-dichlor...	Yes	No data available	No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

This product contains ecotoxic substances which can have damaging effects on water-organisms. This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability. This product contains substances which can accumulate in the food chain because they are bioaccumulative substances. Bioaccumulative substances can accumulate in fat tissue and are not easily secreted.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

Waste

EWC code

-

Specific labelling

-

Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

SECTION 14: Transport information

This product is covered by the conventions on dangerous goods.

14.1 – 14.4

▼ ADR/RID

14.1. UN number	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es)	9
14.4. Packing group	III
Notes	-
Tunnel restriction code	-

▼ IMDG

UN-no.	3082
Proper Shipping Name	-
Class	9
PG*	III
EmS	F-A,S-F
MP**	ja
Hazardous constituent	-

According to EC-Regulation 1907/2006 (REACH)

▼ IATA/ICAO
UN-no.
Proper Shipping Name
Class
PG*

▼ 14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

▼ Restrictions for application

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

Demands for specific education

-

Additional information

Sources

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

EC Regulation 1272/2008 (CLP).

EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼ Full text of H-phrases as mentioned in section 3

- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

-

Other symbols mentioned in section 2

-

Other

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

The safety data sheet is validated by

Jan Skov Nørby

Date of last essential change (First cipher in SDS version)

13-10-2014

Date of last minor change (Last cipher in SDS version)

25-11-2015