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

1.1 Productidentifiers

Product name	Pesticides - Mix 11
Product number	R02181-100CY5
REACH No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses	specific analytics

1.3 Details of the supplier of the safety data sheet

Company	NEOCHEMA GmbH Uwe-Zeidler-Ring 10 55294 Bodenheim, Germany
Telephone	+49 6135 933199 0
Fax	+49 6135 933199 19
E-Mail	info@neochema.com

1.4 Emergency telephone number

Emergency Phone	+49 6135 933199 0 This number is only reachable during office hours (Mo - Fr, 08:00 AM - 4:00 PM CET).

SECTION 2: Hazards identification

2.1 Classification according to Regulation (EC) No 1272/2008

Flam. liq. (category 2), H225
Skin irrit. (category 2), H315
Asp. tox. (category 1), H304
STOT SE (category 3), H336
Aquatic acute (category 1), H400
Aquatic chronic (category 1), H410
For the full text of the H-Statements mentioned in this Section, see Section 2.2.

2.2 Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Gefahr

Hazard statements

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long-lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face pro
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P370 + P378 In case of fire: Use carbondioxid, sand or extinguishing powder to extinguis

Supplemental Hazard Statements (EU)

None

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.

SECTION 3: Composition/information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

Ingredient: Cyclohexane; CAS-No.: 110-82-7; EG-No.: 203-806-2; REACH-No.: 01-2119463273-41-XXXX; Clasification: H225, H304, H315, H336, H400, H410; Flam. Liq 2; Asp. Tox. 1; Skin Irrit. 2; STOT SE 3; Aquatic Acute 1; Aquatic Chronic 1; Concentration: >= 90 - <= 100 %

Ingredient: 4,4´-DDT; CAS-No.: 50-29-3; EG-No.: 200-024-3; REACH-No.: k.A.; Clasification: H301, H351, H372, H400, H410; Acute Tox. 3; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; Concentration: < 0,1 %

Ingredient: gamma-HCH; CAS-No.: 58-89-9; EG-No.: 200-401-2; REACH-No.: k.A.; Clasification: H301, H312, H332, H362, H373, H400, H410; Acute Tox. 3; Acute Tox. 4; Acute Tox. 4; Lact.; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; Concentration: < 0,1 %

Ingredient: 4,4´-DDD; CAS-No.: 72-54-8; EG-No.: 200-783-0; REACH-No.: k.A.; Clasification: H301, H312, H351, H400, H410; Acute Tox. 3; Acute Tox. 4; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; Concentration: < 0,1 %

Ingredient: Heptachlor; CAS-No.: 76-44-8; EG-No.: 200-962-3; REACH-No.: k.A.; Clasification: H300, H310, H351, H373, H400, H410; Acute Tox. 1/2; Acute Tox. 1/2; Carc. 2; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; Concentration: < 0,1 %

Ingredient: Aldrin; CAS-No.: 309-00-2; EG-No.: 206-215-8; REACH-No.: k.A.; Clasification: H300, H310, H351, H372, H400, H410; Acute Tox. 1/2; Acute Tox. 1/2; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; Concentration: < 0,1 %

Ingredient: Dieldrin; CAS-No.: 60-57-1; EG-No.: 200-484-5; REACH-No.: k.A.; Clasification: H300, H310, H351, H372, H400, H410; Acute Tox. 1/2; Acute Tox. 1/2; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; Concentration: < 0,1 %

Ingredient: cis-Heptachlorepoxide; CAS-No.: 1024-57-3; EG-No.: 213-831-0; REACH-No.: k.A.; Clasification: H301, H351, H373, H400, H410; Acute Tox. 3; Carc. 2; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; Concentration: < 0,1 %

Ingredient: Trifluralin; CAS-No.: 1582-09-8; EG-No.: 216-428-8; REACH-No.: k.A.; Clasification: H302, H317, H331, H351, H400, H410; Acute Tox. 4; Skin Sens. 1; Acute Tox. 3; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; Concentration: < 0,1 %

Ingredient: Hexachlorobenzene (HCB); CAS-No.: 118-74-1; EG-No.: 204-273-9; REACH-No.: k.A.; Clasification: H350, H372, H400, H410; Carc. 1; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; Concentration: < 0,1 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

Substances listed on the 'Candidate List of Substances of Very High Concern (SVHC) for authorisation' of the European Chemical Agency (ECHA), are not intentional ingredient of this product. It is not to be expected that those substances are in quantity of >= 0,1 % in this product.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution. Consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. 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. For personal protection see section 8.tt 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoide

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing or collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid exposure. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. 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. Storage class (TRGS 510): Flammable liquids.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredient: Cyclohexane; CAS-No.: 110-82-7; TWA: 200 ppm, 700 mg/m3; AGW: 200 ppm, 700 mg/m3

Ingredient: Aldrin; CAS-No.: 309-00-2; AGW: 0,25 mg/m3

Ingredient: Dieldrin; CAS-No.: 60-57-1; AGW: 0,25 mg/m3

Ingredient: Heptachlor; CAS-No.: 76-44-8; AGW: 0,05 mg/m3

Ingredient: 4,4´-DDT; CAS-No.: 50-29-3; AGW: 1 mg/m3

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

splash contact
material: butyl-rubber
minimum layer thickness: 0,7 mm
break through time: > 5 min

Body Protection

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoid

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Theses information refer to the main component and are literature values.

a)	**Physical state**	liquid
b)	**Color**	colorless
c)	**Odor**	sweetish
d)	**Melting point/freezing point**	4-7 °C
e)	**Initial boiling point and boiling range**	80,7 °C
f)	**Flammability**	No Data available
g)	**Upper/lower flammability or explosive limits**	upper: 8,3 %(V) ; lower: 1,2 %(V)
h)	**Flash point**	-20 °C - closed crucible
i)	**Autoignition temperature**	260,0 °C
j)	**Decomposition temperature**	No Data available
k)	**pH**	No Data available
l)	**Viscosity**	dynamic: 0,89 mPa.s at 25 °C
m)	**Water solubility**	52 g/l at 23,5 °C - partially soluble
n)	**Partition coefficient: n-octanol/water**	log Pow: 3,44 at 25 °C - Bioaccumulation is not expected
o)	**Vapor pressure**	124 hPa at 24 °C
p)	**Densitiy Relative density**	0,779 g/cm3 at 25 °C
q)	**Relative vapor density**	No Data available
r)	**Particle characteristics**	No Data available

9.2 Other safety information

No data available.

SECTION 10: Stability and reactivity

Theses information refer to the main component.

10.1 Reactivity

Vapours can form an explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under normal ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Risk of explosion with: Nitrogen dioxide; Risk of ignition or formation of flammable gases or vapors with: Strong oxidizing agents

10.4 Conditions to avoid

warming

10.5 Incompatible materials

Rubber, various plastics

10.6 Hazardous decomposition products

In case of fire: see Chapter 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

No data available for the product.

Acute toxicity

Ingredient: 4,4´-DDT; CAS-No.: 50-29-3; LD(50) (oral, rat): 87,0 mg/kg; (literature);

Ingredient: gamma-HCH; CAS-No.: 58-89-9; LD(50) (oral, rat): 88 mg/kg; (literature); LD(50) (dermal, k.A.): 1100 mg/kg; (literature); LD(50) (inhalation, rat): 1,56 mg/L; (literature);

Ingredient: 4,4´-DDD; CAS-No.: 72-54-8; LD(50) (oral, hamster): 5000 mg/kg; (literature); LD(50) (dermal, rabbit): 1200 mg/kg; (literature);

Ingredient: Heptachlor; CAS-No.: 76-44-8; LD(50) (oral, rat): 40,0 mg/kg; (literature); LD(50) (dermal, rat): 119,0 mg/kg; (literature);

Ingredient: Aldrin; CAS-No.: 309-00-2; LD(50) (oral, rat): 39,0 mg/kg; (literature); LD(50) (dermal, rabbit): 15,0 mg/kg; (literature);

Ingredient: Dieldrin; CAS-No.: 60-57-1; LD(50) (oral, rat): 38,3 mg/kg; (literature); LD(50) (dermal, k.A.): 5 mg/kg; (literature);

Ingredient: cis-Heptachlorepoxide; CAS-No.: 1024-57-3; LD(50) (oral, rat): 15,0 mg/kg; (literature);

Ingredient: Trifluralin; CAS-No.: 1582-09-8; LD(50) (oral, rat): 1930 mg/kg; (literature); LD(50) (inhalation, rat): 2,8 mg/L; (literature);

Skin corrosion / irritation

vThe mixture causes skin irritation. The classification results from specific concentration limits.

Serious eye damage / eye irritation

The mixture is not classified.

Respiratory or skin sensitisation

The mixture is not classified.

Germ cell mutagenicity

The mixture is not classified.

Carcinogenicity

The mixture is not classified.

Reproductive toxicity

The mixture is not classified.

Specific target organ toxicity - single exposure

The mixture is not classified.

Specific target organ toxicity - repeated exposure

The mixture may cause drowsiness or dizziness. The classification results from specific concentration limits.

Aspiration hazard

The mixture may be fatal if swallowed and enters airways. The classification results from specific concentration limits.

SECTION 12: Ecological information

12.1 Toxicity

Ingredient: Trifluralin; CAS-No.: 1582-09-8; LC/EC(50) (cyprinodon - 96 h): 0,084 mg/L; (literature); NOEC(50): No data available.

Ingredient: Hexachlorobenzene (HCB); CAS-No.: 118-74-1; LC/EC(50) (Lepomis macrochirus - 24 h): 7,6 mg/L; (literature); NOEC(50) (fathead minnow - 96 h): 0,0048 mg/L; (literature);

Ingredient: Heptachlor; CAS-No.: 76-44-8; LC/EC(50) (rainbow trout - 96 h): 0,007 mg/L; (literature); NOEC(50): No data available.

Ingredient: gamma-HCH; CAS-No.: 58-89-9; LC/EC(50) (rainbow trout - 48 h): 0,03 mg/L; (literature); NOEC(50) (rainbow trout - 3 d): 0,056 mg/L; (literature);

Ingredient: Dieldrin; CAS-No.: 60-57-1; LC/EC(50) (goldfish - 96 h): 0,0016 mg/L; (literature); NOEC(50): No data available.

Ingredient: Cyclohexane; CAS-No.: 110-82-7; LC/EC(50) (large water flea - 48 h): 0,9 mg/L; (literature); NOEC(50): No data available.

Ingredient: cis-Heptachlorepoxide; CAS-No.: 1024-57-3; LC/EC(50) (rainbow trout - 96 h): 0,02 mg/L; (literature); NOEC(50): No data available.

Ingredient: Aldrin; CAS-No.: 309-00-2; LC/EC(50) (rainbow trout - 96 h): 0,01 mg/L; (literature); NOEC(50): No data available.

Ingredient: 4,4´-DDT; CAS-No.: 50-29-3; LC/EC(50) (rainbow trout - 96 h): 0,0034 mg/L; (literature); NOEC(50) (rainbow trout - 3 d): 113,0 mg/L; (literature);

Ingredient: 4,4´-DDD; CAS-No.: 72-54-8; LC/EC(50) (water flea - 48 h): 0,01 mg/L; (literature); NOEC(50): No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB 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 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 1145 IMDG: 1145 IATA: 1145

14.2 UN proper shipping name

ADR/RID: Cyclohexane

IMDG: Cyclohexane

IATA: Cyclohexane

14.3 Transport hazard classes

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no

14.6 Special precautions for user

Tunnel restriction code (D/E)

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Further information

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Full text of H-Statements referred to under section 3:

H225 - Highly flammable liquid and vapour.
H300 - Fatal if swallowed.
H301 - Toxic if swallowed.
H302 - Harmful if swallowed.
H304 - May be fatal if swallowed and enters airways.
H310 - Fatal in contact with skin.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H331 - Toxic if inhaled.
H332 - Harmful if inhaled.
H336 - May cause drowsiness or dizziness.
H350 - May cause cancer.
H351 - Suspected of causing cancer.
H362 - May cause harm to breast-fed children.
H372 - Causes damage to organs.
H373 - May cause damage to organs.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.