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



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

1.1 Product identifier

Product name ADIGOR

Other means of identification

Product code 50002438

Unique Formula Identifier

(UFI)

: W201-J0J6-R00J-HCWF

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

**Use of the Sub-** : Adjuvant for plant protection products

stance/Mixture

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 Cheminova Deutschland GmbH & Co. KG

Stader Elbstrasse 26

21683 Stade Germany

Telephone: +49 (0) 4141 9204 0 Telefax: +45 (0) 4141 9204 206

E-mail address: datenblatt@fmc.com, SDS-Info@fmc.com.

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call: Germany: +49-69643508409 (CHEMTREC)

0800-181-7059 (CHEMTREC)

Medical emergency:

Germany: +49 (0) 551 19240

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#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Sub-category 1B H317: May cause an allergic skin reaction.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Long-term (chronic) aquatic hazard, Cat-

egory 2

H411: 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 : H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P261 Avoid breathing mist or vapours.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

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:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified

**Additional Labelling** 

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH401 To avoid risks to human health and the environment, comply with the instruc-

tions for use.

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### 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)
Alcohols, C16-18 and C18- unsatd., ethoxylated	68920-66-1 500-236-9	Skin Irrit. 2; H315 Aquatic Chronic 2; H411	>= 25 - < 30
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspec- ified	64742-94-5 265-198-5 649-424-00-3	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 20 - < 25
naphthalene	91-20-3 202-049-5 601-052-00-2	Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
		Acute toxicity esti- mate	
		Acute oral toxicity: 710 mg/kg	

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



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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 : Avoid inhalation, ingestion and contact with skin and eyes.

If inhaled : Remove to fresh air.

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 ambu-

lance.

If breathing is irregular or stopped, administer artificial respira-

tion.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

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 reuse.

In case of eye contact : Flush eyes with water as a precaution.

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: contains petroleum distillates and/or

aromatic solvents.

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 : Aspiration may cause pulmonary oedema and pneumonitis.

Risks : May be fatal if swallowed and enters airways.

May cause an allergic skin reaction.

Repeated exposure may cause skin dryness or cracking.

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



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

Treatment : Treat symptomatically.

Immediate medical attention is required in case of ingestion. Do not induce vomiting: contains petroleum distillates and/or

aromatic solvents.

### **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 cir-

cumstances 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 fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous prod-

ucts of combustion (see section 10).

Hazardous combustion prod: :

ucts

Fire may produce irritating, corrosive and/or toxic gases.

Carbon oxides

Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

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.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation.

If it can be safely done, stop the leak.

Keep people away from and upwind of spill/leak.

Remove all sources of ignition.

Immediately evacuate personnel to safe areas. Never return spills in original containers for re-use.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

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Only qualified personnel equipped with suitable protective

equipment may intervene.

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 : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

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 : 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 ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing and gloves, including

the inside, before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

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.

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



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Further information on stor-

age conditions

: 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. 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.

Storage class (TRGS 510) : 10

Further information on stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Adjuvant for plant protection products

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
naphthalene	91-20-3	TWA	10 ppm 50 mg/m3	91/322/EEC
	Further inform	nation: Indicative		
	Further information: Substances that are considered to be carcinogenic for man because sufficient data from long-term animal studies or evidence from animal studies substantiated by evidence from epidemiological studies indicate that they can contribute to cancer risk., Danger of absorption through the skin, Substances which are suspected of being germ cell mutagens because of their genotoxic effects in mammalian somatic cells in vivo; in exceptional cases, substances for which there are no in vivo data but which are clearly mutagenic in vitro and structurally related to known in vivo mutagens			
		AGW (Vapour and aerosols, inhalable frac- tion)	0,4 ppm 2 mg/m3	DE TRGS 900
_	Peak-limit: excursion factor (category): 4;(I)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Alcohols, C16-18 and C18-unsatd., ethox-ylated	Workers	Inhalation	Long-term systemic effects	294 mg/m3
	Workers	Dermal	Long-term systemic effects	2080 mg/kg bw/day

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	Consumers	Inhalation	Long-term systemic effects	87 mg/m3
	Consumers	Dermal	Long-term systemic effects	1250 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	25 mg/kg bw/day
naphthalene	Workers	Inhalation	Long-term systemic effects	25 mg/m3
	Workers	Inhalation	Long-term local ef- fects	25 mg/m3
	Workers	Dermal	Long-term systemic effects	3,57 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Alcohols, C16-18 and C18- unsatd., ethoxylated	Fresh water	7,2 μg/l
	Intermittent use (freshwater)	100 μg/l
	Marine water	700 ng/l
	Sewage treatment plant	10 g/l
	Fresh water sediment	22,79 mg/kg dry weight (d.w.)
	Marine sediment	2,28 mg/kg dry weight (d.w.)
	Soil	1 mg/kg dry weight (d.w.)
naphthalene	Fresh water	0,0024 mg/l
	Intermittent use/release	0,020 mg/l
	Marine water	0,0024 mg/l
	Sewage treatment plant	2,9 mg/l
	Fresh water sediment	0,0672 mg/kg dry weight (d.w.)
	Marine sediment	0,0672 mg/kg dry weight (d.w.)
	Soil	0,0533 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water

Tightly fitting safety goggles

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.

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Respiratory protection In case of mist, spray or aerosol exposure wear suitable per-

sonal respiratory protection and protective suit.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Protective measures Plan first aid action before beginning work with this product.

Always have on hand a first-aid kit, together with proper in-

structions.

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 instruc-

tions for use.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state

Colour Light yellow to yellow aromatic, solvent-like Odour Melting point/freezing point No data available Boiling point/boiling range No data available Upper explosion limit / Upper No data available

flammability limit

Lower explosion limit / Lower

flammability limit

123 °C Flash point

Method: Pensky-Martens closed cup - PMCC

Auto-ignition temperature 290 °C

Decomposition temperature No data available

рΗ

6,1

Concentration: 1 %

No data available

Viscosity

Viscosity, dynamic 8,05 mPa.s (40 °C)

> 15,1 mPa.s (20 °C) No data available

Viscosity, kinematic Solubility(ies)

Water solubility No data available Solubility in other solvents No data available Partition coefficient: n-No data available

octanol/water

Vapour pressure No data available 0,927 g/cm3 (20 °C) Density Relative vapour density No data available

Particle characteristics

Particle size No data available

9.2 Other information

**Explosives** Not explosive

Oxidizing properties The substance or mixture is not classified as oxidizing.

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Miscibility with water : completely miscible Surface tension : 32,4 mN/m, 25 °C

**SECTION 10: Stability and reactivity** 

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : None known

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

**SECTION 11: Toxicological information** 

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

**Acute toxicity** 

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

**Product:** 

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

**Components:** 

Alcohols, C16-18 and C18-unsatd., ethoxylated:

Acute oral toxicity : LD50 Oral (Rat, male and female): > 2.000 mg/kg

Remarks: no mortality

Acute inhalation toxicity : LC0 (Rat, male and female): > 1,6 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Remarks: no mortality

Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg

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Remarks: Based on data from similar materials

LD50 (Rat, male and female): > 2.000 mg/kg Remarks: Based on data from similar materials

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4,778 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

naphthalene:

Acute oral toxicity : LD50 (Mouse, female): 710 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat, male and female): > 0,4 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 16.000 mg/kg

Method: OECD Test Guideline 402

#### Skin corrosion/irritation

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

**Product:** 

Species : Rabbit

Result : No skin irritation

Result : Repeated exposure may cause skin dryness or cracking.

### **Components:**

### Alcohols, C16-18 and C18-unsatd., ethoxylated:

Species : Rabbit

Method : OECD Test Guideline 404

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Result : Skin irritation

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rabbit

Result : No skin irritation

Assessment : Repeated exposure may cause skin dryness or cracking.

naphthalene:

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

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

**Product:** 

Species : Rabbit

Result : No eye irritation

**Components:** 

Alcohols, C16-18 and C18-unsatd., ethoxylated:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rabbit

Result : No eye irritation

Remarks : Based on data from similar materials

naphthalene:

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:** 

Species : Guinea pig Method : Buehler Test

Result : The product is a skin sensitiser, sub-category 1B.

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#### **Components:**

### Alcohols, C16-18 and C18-unsatd., ethoxylated:

Test Type : Buehler Test Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.
Remarks : Based on data from similar materials

### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Test Type : Maximisation Test

Species : Guinea pig

Result : Not a skin sensitizer.

Remarks : Based on data from similar materials

#### naphthalene:

Test Type : Maximisation Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

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

### **Components:**

### Alcohols, C16-18 and C18-unsatd., ethoxylated:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Remarks: Based on data from similar materials

Test Type: reverse mutation assay Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: chromosome aberration assay

Species: Rat (male and female)

Application Route: Oral

Result: negative

Remarks: Based on data from similar materials

Test Type: In vivo micronucleus test Species: Mouse (male and female) Application Route: Intraperitoneal injection

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Result: negative

Remarks: Based on data from similar materials

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Genotoxicity in vitro : Test Type: reverse mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

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

Metabolic activation: with and without metabolic activation

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Application Route: Ingestion

Result: negative

naphthalene:

Genotoxicity in vitro : Test Type: reverse mutation assay

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Carcinogenicity

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

**Components:** 

naphthalene:

Species : Rat
Application Route : Inhalation
Exposure time : 2 Years
Result : positive

Carcinogenicity - Assess-

ment

Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

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

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#### **Components:**

#### Alcohols, C16-18 and C18-unsatd., ethoxylated:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female Application Route: Dermal

Dose: 0, 10, 100, 250mg/kg/bw/day

General Toxicity - Parent: NOAEL: >= 250 mg/kg bw/day General Toxicity F1: NOAEL: >= 250 mg/kg bw/day General Toxicity F2: NOAEL: >= 250 mg/kg bw/day

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Species: Rat

Application Route: Dermal

Dose: 0, 10, 100, 250mg/kg/bw/day

General Toxicity Maternal: NOAEL: >= 250 mg/kg bw/day Embryo-foetal toxicity: NOAEL: >= 250 mg/kg bw/day

Result: negative

Remarks: Based on data from similar materials

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Effects on fertility : Test Type: Three-generation study

Species: Rat, male and female Application Route: Inhalation

Result: negative

Effects on foetal develop-

ment

Test Type: Pre-natal

Species: Rat

Application Route: Ingestion Symptoms: Maternal effects Method: OECD Test Guideline 414

Result: negative

naphthalene:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Inhalation

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 414

Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

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



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#### STOT - single exposure

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

### STOT - repeated exposure

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

#### Components:

#### Alcohols, C16-18 and C18-unsatd., ethoxylated:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

#### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

#### Repeated dose toxicity

### **Components:**

### Alcohols, C16-18 and C18-unsatd., ethoxylated:

Species : Rat, male and female NOAEL : >= 500 mg/kg bw/day

Application Route : Oral Exposure time : 90d

Dose : 0, 15, 50, 150, 500mg/kg/bw/d
Remarks : Based on data from similar materials

### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rat

NOAEL : 300 mg/kg
Application Route : Oral - gavage
Exposure time : 13 weeks
Remarks : mortality

## **Aspiration toxicity**

May be fatal if swallowed and enters airways.

#### **Components:**

### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

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 consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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



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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

**Further information** 

**Product:** 

Remarks : Solvents may degrease the skin.

**SECTION 12: Ecological information** 

12.1 Toxicity

**Product:** 

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 9,6 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 7,1 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 1,2

mg/l

Exposure time: 72 h

ErC10 (Raphidocelis subcapitata (freshwater green alga)):

0,41 mg/l

End point: Growth rate Exposure time: 72 h

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Components:** 

Alcohols, C16-18 and C18-unsatd., ethoxylated:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 108 mg/l

Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 51 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: water accommodated fractions (WAF)

Based on data from similar materials

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (algae)): > 10 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10 g/l

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Exposure time: 16,9 h Method: DIN 38 412 Part 8

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOEC: 0,16 mg/l Exposure time: 10 d

Species: Pimephales promelas (fathead minnow)

Test Type: flow-through test

Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,77 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 or-

ganisms

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

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 3 mg/l

Exposure time: 96 h Method: EPA OPP 72-1

Toxicity to daphnia and other : aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 1,1 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

NOELR (Pseudokirchneriella subcapitata (green algae)): 0,22

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

EL50 (Pseudokirchneriella subcapitata (green algae)): 7,9

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOELR: 0,103 mg/l Exposure time: 28 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: QSAR

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOELR: 0,18 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Method: QSAR

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**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

naphthalene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2,16 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Skeletonema costatum (marine diatom)): 0,4 - 0,5 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

1

Toxicity to microorganisms : IC50 (Bacteria): 29 mg/l

Exposure time: 24 h

Toxicity to fish (Chronic tox-

icity)

NOEC: 0,37 mg/l Exposure time: 40 d

Species: Oncorhynchus kisutch (coho salmon)

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,59 mg/l Exposure time: 125 d

Species: Daphnia pulex (Water flea)

M-Factor (Chronic aquatic

toxicity)

1

### 12.2 Persistence and degradability

# **Components:**

### Alcohols, C16-18 and C18-unsatd., ethoxylated:

Biodegradability : Inoculum: activated sludge, non-adapted

Result: Readily biodegradable. Method: OECD Test Guideline 301B

#### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 60,74 % Exposure time: 28 d

Method: OECD Test Guideline 301F

naphthalene:

Biodegradability : Result: Inherently biodegradable.

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Biodegradation: 67 % Exposure time: 12 d

### 12.3 Bioaccumulative potential

#### **Components:**

### Alcohols, C16-18 and C18-unsatd., ethoxylated:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)

Bioconcentration factor (BCF): 387,5

Remarks: Based on data from similar materials

Partition coefficient: n-

octanol/water

log Pow: 4,6 (22 °C)

### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Partition coefficient: n- : log Pow: 3,17 - 5,6 octanol/water : Method: QSAR

naphthalene:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 168

Partition coefficient: n-

octanol/water

log Pow: 3,7

### 12.4 Mobility in soil

No data available

### 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.

#### 12.6 Endocrine disrupting properties

**Product:** 

Assessment : The substance/mixture does not contain components consid-

ered 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 infor- : An environmental hazard cannot be excluded in the event of

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



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mation unprofessional handling or disposal.

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 chemi-

cal 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 han-

dling site for recycling or disposal.

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADN : UN 3082
ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

#### 14.2 UN proper shipping name

**ADN** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Solvent naphtha (petroleum), light aromatic)

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Solvent naphtha (petroleum), light aromatic)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Solvent naphtha (petroleum), light aromatic)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Solvent naphtha (petroleum), light aromatic)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.

(Solvent naphtha (petroleum), light aromatic)

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



## **ADIGOR**

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### 14.3 Transport hazard class(es)

Class Subsidiary risks

ADN : 9
ADR : 9
RID : 9
IMDG : 9
IATA : 9

### 14.4 Packing group

**ADN** 

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

**ADR** 

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

**IMDG** 

Packing group : III
Labels : 9
Ems Code : E A

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964 Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passen: 964

ger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

**ADN** 

Environmentally hazardous : yes

**ADR** 

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



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Environmentally hazardous ves

Environmentally hazardous yes

**IMDG** 

Marine pollutant yes

IATA (Passenger)

Environmentally hazardous ves

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, 3

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 pollu-

tants (recast)

naphthalene

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

E2

**ENVIRONMENTAL HAZARDS** 

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control of major-accident hazards involving dangerous substances.

34 Petroleum products: (a) gasolines

and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a)

to (d)

Water hazard class (Germa-

ny)

WGK 2 obviously hazardous to water

Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:

Not applicable

5.2.2: Inorganic substances in powdered form:

Not applicable

5.2.4: Inorganic substances in gaseous form:

Not applicable

5.2.5: Organic Substances:

Not applicable

5.2.7.1.1: Carcinogenic substance:

Not applicable

5.2.7.1.1: Quartz fine dust PM4:

Not applicable

5.2.7.1.1: Formaldehyde:

Not applicable 5.2.7.1.1: fibres: Not applicable

5.2.7.1.2: Germ cell mutagens:

Not applicable

5.2.7.1.3: Substances toxic to reproduction:

Not applicable

5.2.7.2: Poorly degradable, easily enrichable and highly toxic

organic substances: Not applicable

## Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: On the inventory, or 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**

H228 : Flammable solid. H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H351 : Suspected of causing cancer. 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.

EUH066 : Repeated exposure may cause skin dryness or cracking.

#### 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 Carc. : Carcinogenicity Flam. Sol. : Flammable solids Skin Irrit. : Skin irritation

91/322/EEC : Europe. Commission Directive 91/322/EEC on establishing

indicative limit values

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

91/322/EEC / TWA : Limit Value - eight hours

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DE TRGS 900 / AGW : Time Weighted Average

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:

Skin Sens. 1B H317 Based on product data or assessment

Asp. Tox. 1 H304 Calculation method

Aquatic Chronic 2 H411 Based on product data or assessment

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