

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: FKL OSR Gelb****1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture Adjuvant**1.3 Details of the supplier of the safety data sheet****Supplier:**

Cheminova Deutschland GmbH & Co. KG

FMC Agricultural Solutions

Stader Elbstraße 26

21683 Stade

Germany

Tel: +49 (0) 4141 9204 0

Fax: +49 (0) 4141 9204 210

datenblatt@fmc.com

www.fmcagro.de

Further information obtainable from:

Cheminova Deutschland GmbH & Co. KG

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Fax: +49 (0) 4141 9204 210

datenblatt@fmc.com

www.fmcagro.de

1.4 Emergency telephone number:

Cases of intoxication:

+49 (0) 551 19240 (GIZ-Nord Poisons Centre, Göttingen, Germany, 24 h) "Member of EPECS Network"

Hazardous substance/dangerous goods incidents (e.g. spills, leaks, fire, exposure or accident):

0800 181 7059 (CHEMTREC Germany, toll-free, 24 h)

+49 (0) 69 643 508 409 (CHEMTREC from outside Germany, 24 h)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling:

2-methyl-2H-isothiazol-3-one

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to a suitable waste collection point.

Additional information:

EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 1,2-benzisothiazol-3(2H)-one, 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

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

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Aqueous copolymer dispersion based on vinyl acetate/ethylene with pigments containing substances listed below with non-hazardous additions.

Dangerous components:

CAS: 99734-09-5	Polyaryl ethoxylate Aquatic Chronic 3, H412	< 5%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	< 0.05%
CAS: 2682-20-4 EINECS: 220-239-6	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Skin Sens. 1A, H317	< 0.05%
CAS: 26530-20-1 EINECS: 247-761-7 Index number: 613-112-00-5	2-octyl-2H-isothiazol-3-one Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	< 0.05%

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Trade name: FKL OSR Gelb

CAS: 55965-84-9

Index number: 613-167-00-5

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one
[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one
[EC no. 220-239-6] (3:1)

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< 0.0015%

⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox.
3, H331; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1,
H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If contact lenses are worn, remove after 5 minutes of rinsing, then continue rinsing.

After swallowing:

Rinse mouth with plenty of water; do not swallow.

Do not induce vomiting. Call for medical help and show this material safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use CO₂ or powder for small fires. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Do not inhale explosion gases or combustion gases.

Use water spray to knock down fire fumes if possible.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Avoid contact with spilled product or contaminated areas.

Avoid contact with eyes, skin and clothing.

6.2 Environmental precautions: Do not discharge into sewer, surface water or groundwater.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Disposal had to be accomplished in suitable receptacles.

If possible clean area with detergent and much water. Absorb wash liquid with absorbent and transfer to suitable containers for disposal.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Wear personal protection equipment.

Avoid contact with the eyes, the skin and clothing.

Wash hands before breaks and at the end of work.

Do not eat, drink or smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Information about storage in one common storage facility:

Do not store together with foodstuffs, beverages and feed.

Store away from oxidising agents.

Additionally the restriction for joint storage must be observed (according to TRGS 510).

Further information about storage conditions:

Protect from heat and direct sunlight.

Protect from frost.

Keep out of reach for children.

Recommended storage temperature: Store between 5 °C and 35 °C.

Storage class: 10 (TRGS 510): Combustible liquids

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7.3 Specific end use(s)

Use only in accordance with the instruction manual.
No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

2682-20-4 2-methyl-2H-isothiazol-3-one

MAK Langzeitwert: 0.2 E mg/m³
vgl. Abschn. Xc

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Be sure to clean skin thoroughly after work and before breaks.
Ensure good ventilation at the workplace.

Respiratory protection:

In case of insufficient ventilation/exhausting use:



Respiratory single serving mask DIN EN 149 with filter FFP2

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.



Protective gloves (EN 374, EN 388, EN 420)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Choose chemical resistant gloves.

Recommend are gloves made of:

Nitrile, recommended thickness of the material: ≥ 0.11 mm

Penetration time of glove material

Penetration time 480 minutes (Permeation according to EN 374 Part 3: Level 6) e.g. for Dermatril®
If other glove materials or protective gloves of other manufacturers are used, than the exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Eye protection:


Tightly sealed goggles (EN 166)

Body protection:


Use suitable protective work clothing. Protective suit against pesticides (DIN 32781) is recommended when handling the product.



Sturdy shoes, e.g. rubber boots (EN 20345)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information
Appearance:

Form:	Fluid
Colour:	Yellow
Odour:	Not determined
Odour threshold:	Not determined.

pH-value at 20 °C:	7 - 8
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Change in condition

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined

Flash point:	Not determined.
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Flammability (solid, gas):	Not applicable.
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Ignition temperature:	Not determined.
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Decomposition temperature:	Not determined.
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Auto-ignition temperature:	Not determined
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Explosive properties:	Product does not present an explosion hazard if used and stored according to specifications.
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Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

Oxidising properties	No oxidising properties
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Vapour pressure:	Not determined.
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Density at 20 °C:	1.2 g/cm ³
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Vapour density	Not determined.
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Evaporation rate	Not determined.
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Solubility in / Miscibility with water:

Dispersible

Partition coefficient: n-octanol/water: Not determined.

Viscosity:
Dynamic:

Not determined.

Kinematic:

Not determined.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under normal conditions of use.

10.2 Chemical stability
Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

No hazardous reactions if used and stored according to specifications.

10.4 Conditions to avoid

Protect against heat and direct sunlight.

Protect from frost.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

No hazardous decomposition products if stored and used according to specifications.

See Section 5 for information about hazardous decomposition products in case of fire.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

The toxicity of this product was not tested. The toxicity of the product was evaluated based on the toxicity of the ingredients.

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

Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

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

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.

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

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SECTION 12: Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark: If used as recommended no inadequate risks to the environment are expected.

Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

Uncleaned packaging:

Recommendation:

Do not reuse packing for other products.

Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG

Void

14.2 UN proper shipping name

ADR, ADN, IMDG

Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG

Class

Void

14.4 Packing group

ADR, IMDG

Void

14.5 Environmental hazards:

Marine pollutant:

No

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14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:

Information about limitation of use:

Young people (under the age of 18) are not allowed to work with the product (Directive 2014/27/EU amending Council Directive 94/33/EC).

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

Avoid any unnecessary contact with the product.

Any misuse may cause health problems.

The product is not covered by Annex 2 of the German Chemikalienverbotsverordnung (ChemVerbotsV).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This material safety data sheet was created in accordance with the Commission Regulation (EU) 2015/830 amending Regulation (EC) No 1907/2006.

Relevant phrases

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H331 Toxic 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.

Department issuing SDS: Regulatory Affairs

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Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Dangerous Goods Code
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity - oral – Category 3
Acute Tox. 4: Acute toxicity - oral – Category 4
Acute Tox. 2: Acute toxicity - inhalation – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**

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