

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

### **1.1 Product identifier**

**Trade name:** FKL 15 RS

### **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** Mixture on customer's request

### **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

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**Further information obtainable from:**

Cheminova Deutschland GmbH & Co. KG

FMC Agricultural Solutions

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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**

The product is not classified, according to the CLP regulation.

### **2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

**Additional information:**

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 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). May produce an allergic reaction.

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

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### 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 pigment- and polymer dispersion of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 12001-26-2 EC number: 310-127-6	Mica substance with a Community workplace exposure limit	< 20%
CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23	Propylene glycol substance with a Community workplace exposure limit	< 5%
CAS: 119432-41-6	Poly(oxy-1,2-ethanediyl), α-sulfo-ω-[2,4,6-tris(1-phenylethyl)phenoxy]-, ammonium salt Aquatic Chronic 3, H412	< 5%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	< 0.5%
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: 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) ⚠ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Skin Sens. 1A, H317	< 0.0015%

## 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.

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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 water and alcohol-resistant foam for large fires.

Use carbon dioxide (CO<sub>2</sub>) or dry chemical powder for small fires.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen cyanide (HCN)

Hydrogen chloride (HCl)

Sulfur oxides (SO<sub>x</sub>)

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.

Cool endangered receptacles with water spray.

Use water spray to knock down fire fumes if possible.

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

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.

**6.2 Environmental precautions:**

Do not discharge into sewer, surface water or groundwater.

Inform respective authorities in case of seepage into water course or sewage system.

**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.

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See Section 13 for disposal information.

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### 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 and skin.

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.

Do not store with strong 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

#### 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

#### 8.1 Control parameters

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

##### Ingredients with limit values that require monitoring at the workplace:

##### 12001-26-2 Mica

WEL Long-term value: 10\* 0.8\*\* mg/m<sup>3</sup>  
\*total inhalable \*\*respirable

##### 57-55-6 Propylene glycol

WEL Long-term value: 474\* 10\*\* mg/m<sup>3</sup>, 150\* ppm  
\*total vapour and particulates \*\*particulates

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**67-64-1 acetone**

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm  
Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

**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.

Ensure good ventilation at the workplace.

Be sure to clean skin thoroughly after work and before breaks.

The statements on personal protective equipment in the instructions for use apply when handling the product.

**Respiratory protection:**

If the exposure limit is exceeded and in case of accidental release of the substance:

Wear appropriate respiratory protective equipment if ventilation is inadequate. Respiratory protection should only be used to control the residual risk during short-term activities if all technically feasible measures to reduce the hazard at the source have been observed, e.g. by restraint and/or local exhaust ventilation.



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 Rubber

**Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Safety glasses (EN 166)

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### 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:	Red
Odour:	Odourless
Odour threshold:	Not determined.

pH-value:	6-9 (CIPAC MT 75.3)
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#### Change in condition

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	100 °C

Flash point:	>100 °C
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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:	1.2-1.24 g/cm <sup>3</sup>
Vapour density	Not determined.
Evaporation rate	Not determined.

#### Solubility in / Miscibility with water:

miscible

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

Dynamic:	1500-2000 mPas (Brookfield LV3, 10 rpm)
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**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 decomposition 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:** Strong oxidants.**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.**LD/LC50 values relevant for classification:****Remarks:** 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** Based on available data, the classification criteria are not met.**Additional toxicological information:****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.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:**

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

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

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**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**

Disposal must be made according to official regulations.

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

**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, IATA

Void

**14.3 Transport hazard class(es)**

ADR, ADN, IMDG, IATA

Class

Void

**14.4 Packing group**

ADR, IMDG, IATA

Void

**14.5 Environmental hazards:**

Not applicable.

**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.

**UN "Model Regulation":**

Void

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## 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.

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

### National regulations:

**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

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal 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.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

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

### Contact:

Cheminova Deutschland GmbH & Co. KG

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Stader Elbstraße 26

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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)  
ICAO: International Civil Aviation Organisation  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Dangerous Goods Code  
IATA: International Air Transport Association  
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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 2: Acute toxicity – Category 2  
Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
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.**