



<b>SAFETY DATA SHEET</b>	Revision Date: 07.06.2018
	Print Date: 10.12.2018
	SDS Number: R0718553
Allianz™ OPT-C5G ™ Trademark, Ashland or its subsidiaries, registered in various countries 826156	Version: 4.1

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_GB

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

### 1.1 Product identifier

Trade name : Allianz™ OPT-C5G

™ Trademark, Ashland or its subsidiaries, registered in various countries

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

Recommended use : Personal care  
Skin-care

### 1.3 Details of the supplier of the safety data sheet

Ashland  
P.O. Box 8619  
NL3009 AP, Rotterdam  
Netherlands  
+31 10 497 5000 (in the Netherlands), or  
contact your local CSR contact person

EUSMT@ashland.com

### 1.4 Emergency telephone number

00-800-274-5263-3/001-859-357-3564, or contact your local emergency telephone number at 111 - ENG, SCO, CYM and 0808 808 8000 - NIE (Mo - Fr, 08.00 - 18.00)

### Product Information

+31 10 497 5000 (in the Netherlands), or contact your local CSR contact person

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Serious eye damage, Category 1

H318: Causes serious eye damage.

### 2.2 Label elements

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

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H318

Causes serious eye damage.

Precautionary statements

: **Prevention:**

P280

Wear eye protection/ face protection.

**Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously  
with water for several minutes. Remove  
contact lenses, if present and easy to do.  
Continue rinsing. Immediately call a  
POISON CENTER/doctor.

Hazardous components which must be listed on the label:

Pentane-1,2-diol

**Additional Labelling:**

EUH208

Contains Disodium peroxodisulphate. May produce an allergic reaction.

**2.3 Other hazards****Additional advice**

No information available.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Pentane-1,2-diol	5343-92-0 226-285-3	Eye Dam.1; H318	>= 5,00 - < 10,00
Disodium peroxodisulphate	7775-27-1 231-892-1	Ox. Sol.3; H272 Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319	>= 0,10 - < 0,50

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Skin Sens.1; H317  
STOT SE3; H335

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.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.  |
| If inhaled              | : Move to fresh air.<br>Call a physician or poison control centre immediately.<br>Keep patient warm and at rest.<br>If unconscious, place in recovery position and seek medical advice.   |
| In case of skin contact | : Remove contaminated clothing. If irritation develops, get medical attention.<br>If on skin, rinse well with water.<br>First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.<br>Wash contaminated clothing before re-use. |
| In case of eye contact  | : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.   |
| If swallowed            | : Obtain medical attention.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.  |

### 4.2 Most important symptoms and effects, both acute and delayed

- |          |   |
|----------|---|
| Symptoms | : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through |
|----------|---|



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the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)

Risks : Causes serious eye damage.

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

Treatment : No hazards which require special first aid measures.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



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## SECTION 6: Accidental release measures

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

- Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.

### 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 : Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
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.  
Container hazardous when empty.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national



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regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

## 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.

Other data : No decomposition if stored and applied as directed.

## 7.3 Specific end use(s)

Specific use(s) : No data available

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
Maintain eye wash station in immediate work area.

Use eye protection according to EN 166.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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Skin and body protection : Wear as appropriate:  
Impervious clothing  
Safety shoes  
Choose body protection according to the amount and  
concentration of the dangerous substance at the work place.  
Discard gloves that show tears, pinholes, or signs of wear.

Protective clothing complying with EN 13688.  
Safety shoes complying with EN ISO 20345.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : milky, white

Odour : acrylic-like

Odour Threshold : No data available

pH : 4,5 - 6,5

Melting point/freezing point : 0 °C  
Value for Component

Boiling point/boiling range : 100 °C  
Value for Component

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 22,66 hPa (20 °C)

Relative vapour density : No data available

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Relative density : No data available

Density : 1,10 g/cm<sup>3</sup> (25 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

Conditions to avoid : excessive heat

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents



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**10.6 Hazardous decomposition products**

 Hazardous decomposition : carbon dioxide and carbon monoxide  
 products

**SECTION 11: Toxicological information**
**11.1 Information on toxicological effects**

 Information on likely routes of : Inhalation  
 exposure : Skin contact  
 : Eye Contact  
 : Ingestion

**Acute toxicity**

Not classified based on available information.

**Product:**

 Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
 Remarks: Based on similar product.

 Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
 Remarks: Based on similar product.

**Components:**

Pentane-1,2-diol

Acute oral toxicity : LD50 (Rat): &gt; 5.000 mg/kg

 Acute inhalation toxicity : LC50 (Rat): > 7.015 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist

 Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
 Method: OECD Test Guideline 402

**Components:**

Disodium peroxodisulphate

 Acute oral toxicity : LD50 (Rat, female): 920 mg/kg  
 Method: OECD Test Guideline 401  
 GLP: yes

 Acute inhalation toxicity : LC50 (Rat): > 5,1 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist



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Acute dermal toxicity : LD50 (Rat): > 10.000 mg/kg

#### **Skin corrosion/irritation**

Not classified based on available information.

#### **Product:**

Remarks: May cause skin irritation in susceptible persons.

#### **Components:**

Pentane-1,2-diol

Result: Slight, transient irritation

Disodium peroxodisulphate

Result: Severe skin irritation

#### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Product:**

Remarks: May cause irreversible eye damage.

#### **Components:**

Pentane-1,2-diol

Result: Corrosive

Disodium peroxodisulphate

Result: Irritating to eyes.

#### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### **Product:**

Remarks: May cause allergic skin reaction.

#### **Components:**

Pentane-1,2-diol

Assessment: Did not cause sensitisation on laboratory animals.

Disodium peroxodisulphate

Assessment: May cause sensitisation by inhalation.

Assessment: May cause sensitisation by skin contact.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

Pentane-1,2-diol

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Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Disodium peroxodisulphate  
 Genotoxicity in vitro : Test Type: Ames test  
 Test species: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

Genotoxicity in vivo : Test Type: chromosome aberration assay  
 Test species: Mouse  
 Cell type: Bone marrow  
 Method: OECD Test Guideline 474

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**Components:**

Disodium peroxodisulphate  
 Exposure routes: Inhalation  
 Target Organs: Respiratory Tract  
 Assessment: May cause respiratory irritation.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks: No data available

**SECTION 12: Ecological information****12.1 Toxicity****Components:**

Pentane-1,2-diol  
 Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1.096 mg/l  
 Exposure time: 96 h

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Test Type: static test

 Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l  
 Exposure time: 48 h  
 Test Type: static test

 Toxicity to algae : EC50 (green algae): 9.334 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test

 Disodium peroxodisulphate  
 Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 163 mg/l  
 Exposure time: 96 h  
 Test Type: static test

 Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 133 mg/l  
 Exposure time: 48 h  
 Test Type: static test

 Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 116 mg/l  
 End point: Biomass  
 Exposure time: 72 h  
 Test Type: static test

**12.2 Persistence and degradability**
**Components:**

Pentane-1,2-diol


 Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 73 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301E  
 Remarks: The 10 day time window criterion is not fulfilled.

Disodium peroxodisulphate

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

No data available

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#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

##### Components:

Pentane-1,2-diol

Assessment

: This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

#### 12.6 Other adverse effects

##### Product:

Additional ecological  
information

: No data available

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

---

### SECTION 14: Transport information


#### SECTION 14: Transport information

##### 14.1 UN number

**ADN:** Not dangerous goods

**ADR:** Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods

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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods  
**RID:** Not dangerous goods

#### 14.2 UN proper shipping name

**ADN:** Not dangerous goods  
**ADR:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods  
**RID:** Not dangerous goods

#### 14.3 Transport hazard class(es)

**ADN:** Not dangerous goods  
**ADR:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods  
**RID:** Not dangerous goods

#### 14.4 Packing group

**ADN:** Not dangerous goods  
**ADR:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not dangerous goods  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not dangerous goods  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not dangerous goods  
**RID:** Not dangerous goods


#### 14.5 Environmental hazards

**ADN:** Not applicable  
**ADR:** Not applicable  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable  
**RID:** Not applicable

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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Ship Type: Not applicable  
Hazard code(s): Not applicable  
Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

## SECTION 15: Regulatory information

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

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

TSCA : This product is regulated under the United States Food and Drug Act (FDA).

DSL On the inventory, or in compliance with the inventory



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AICS	On the inventory, or in compliance with the inventory
ENCS	Not in compliance with the inventory
KECI	Not in compliance with the inventory
IECSC	Low volume exemption
PICCS	Not in compliance with the inventory

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

## 15.2 Chemical safety assessment

No data available

## SECTION 16: Other information

### Further information

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### Classification procedure:

H318 Causes serious eye damage. Calculation method

### Full text of H-Statements

H272 May intensify fire; oxidizer.  
H302 Harmful if swallowed.  
**H315** Causes skin irritation.  
**H317** May cause an allergic skin reaction.  
**H318** Causes serious eye damage.  
**H319** Causes serious eye irritation.  
**H335** May cause respiratory irritation.





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Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet  
 Ashland internal data including own and sponsored test reports  
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
 BEI : Biological Exposure Index  
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
 FG : Food grade  
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
 H-statement : Hazard Statement  
 IATA : International Air Transport Association.  
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
 ICAO : International Civil Aviation Organization  
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
 IMDG : International Maritime Code for Dangerous Goods  
 ISO : International Organization for Standardization  
 logPow : octanol-water partition coefficient  
 LCxx : Lethal Concentration, for xx percent of test population  
 LDxx : Lethal Dose, for xx percent of test population.  
 ICxx : Inhibitory Concentration for xx of a substance  
 Ecxx : Effective Concentration of xx  
 N.O.S.: Not Otherwise Specified  
 OECD : Organization for Economic Co-operation and Development  
 OEL : Occupational Exposure Limit  
 P-Statement : Precautionary Statement  
 PBT : Persistent , Bioaccumulative and Toxic  
 PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit



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STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands  
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: Regulation for the Carriage of Dangerous Substances on the Rhine  
 CLP : Classification, Labelling and Packaging  
 CSA : Chemical Safety Assessment  
 CSR : Chemical Safety Report  
 DNEL : Derived No Effect Level.  
 EINECS : European Inventory of Existing Commercial Chemical Substances.  
 ELINCS : European List of Notified Chemical Substances  
 GV: Exposure limits (DK)  
 PEC : Predicted Effect Concentration  
 PEL : Permissible Exposure Limits  
 PNEC : Predicted No Effect Concentration  
 R-phrase : Risk phrase  
 REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID : Regulation Concerning the International Transport of Dangerous Goods by Rail  
 S-phrase: Safety phrase  
 WGK : German Water Hazard Class