

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



Article No.: 1565  
Print date: 14.08.2023  
Version: 9

Hardener DOWACOAT FG Primer  
Revision date: 30.06.2023  
Issue date: 30.06.2023

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

**1.1. product identifiers**

Article No. (manufacturer/supplier) 1565  
Trade name/designation Hardener DOWACOAT FG Primer  
Typ 9460

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

**1.3. Details of the supplier of the safety data sheet**

**supplier (manufacturer/importer/downstream user/distributor)**

Eclatin AG  
Lack- und Farbenfabrik Telephone: +41 32 622 41 41  
Bürenstrasse 131 Telefax: +41 32 623 91 23  
CH-4574 Lüsslingen

**Department responsible for information:**

Labor  
E-mail info@eclatin.ch

**1.4. Emergency telephone number**

Emergency telephone number +41 32 622 41 41  
Toxikologisches Zentrum 145 (+41 44 251 51 51)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

**2.2. Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



**Danger**

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.

**Precautionary statements**

P261 Avoid breathing vapours.  
P280 Wear protective gloves and eye/face protection.  
P284 In case of inadequate ventilation wear respiratory protection.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Hazard components for labelling**

ethylenediamine

**Supplemental hazard information**

not applicable

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

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**Description** Polyamine adduct

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

EC No.	REACH No.	weight-%
CAS No.	Designation	
Index No.	classification // Remark	
202-013-9	01-2119560597-27	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	5 - 10
603-069-00-0	Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Skin Irrit. 2 H315 Acute toxicity estimate (ATE), ATE (oral): 500 mg/kg bw	
203-468-6	01-2119480383-37	
107-15-3	ethylenediamine	1 - 5
612-006-00-6	Flam. Liq. 3 H226 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / Skin Corr. 1B H314 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.	

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

In all cases of doubt, or when symptoms persist, seek medical advice.

**4.3. Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3. Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

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**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

**6.3. Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

**6.4. Reference to other sections**

Observe protective provisions (see section 7 and 8).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Further information**

Vapours are heavier than air. Vapours form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

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

**8.1. Control parameters**

**Occupational exposure limit values:**

not applicable

**PNEC:**

2,4,6-tris(dimethylaminomethyl)phenol

Index No. 603-069-00-0 / EC No. 202-013-9 / CAS No. 90-72-2

PNEC aquatic, freshwater: 0,084 mg/L

PNEC aquatic, marine water: 0,008 mg/L

PNEC sewage treatment plant (STP): 0,2 mg/L

**8.2. Exposure controls**

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**

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If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

**Body protection**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

<b>Physical state:</b>	<b>Liquid</b>
<b>Colour:</b>	<b>refer to label</b>
<b>Odour:</b>	<b>characteristic</b>
<b>Odour threshold:</b>	<b>not applicable</b>
<b>Melting point/freezing point:</b>	<b>not applicable</b>
<b>Initial boiling point and boiling range:</b>	<b>not applicable</b>
<b>Flammability:</b>	<b>not applicable</b>
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>2.5 Vol-%</b>
<b>Upper explosion limit:</b>	<b>16.3 Vol-%</b>
	Source: ethylenediamine
<b>Flash point:</b>	<b>not applicable</b>
<b>Auto-ignition temperature:</b>	<b>385 °C</b>
	Source: ethylenediamine
<b>Decomposition temperature:</b>	<b>not applicable</b>
<b>pH at 20 °C:</b>	<b>not applicable</b>
<b>Cinematic viscosity (40°C):</b>	<b>4882.81 mm<sup>2</sup>/s</b>
<b>Viscosity at 20 °C:</b>	<b>5000 mPa* s</b>
	Method: 1/D 1250
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>insoluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>not applicable</b>
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>1.02 g/cm<sup>3</sup></b>
<b>Relative vapour density:</b>	<b>not applicable</b>
<b>particle characteristics:</b>	<b>not applicable</b>
9.2. <b>Other information</b>	
<b>Solid content:</b>	<b>98 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>0 weight-%</b>
<b>Water:</b>	<b>0 weight-%</b>

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

not applicable

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

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

#### Acute toxicity

2,4,6-tris(dimethylaminomethyl)phenol  
oral, LD50, Rat: 500 mg/kg

#### Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

2,4,6-tris(dimethylaminomethyl)phenol  
Skin (4 h)

Causes severe burns.

eyes

Causes serious eye damage.

#### Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

2,4,6-tris(dimethylaminomethyl)phenol

Respiratory system: ; Evaluation Not to be classified as an inhalation or skin allergen.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2,4,6-tris(dimethylaminomethyl)phenol

Germ cell mutagenicity; Evaluation Not to be classified as germ cell mutagen (mutagen).

Carcinogenicity; Evaluation Does not qualify as a carcinogen.

Reproductive toxicity; Evaluation Not to be classified as toxic to reproduction.

#### STOT-single exposure; STOT-repeated exposure

2,4,6-tris(dimethylaminomethyl)phenol

Specific target organ toxicity (single exposure) Evaluation Not to be classified as specific target organ toxic (single exposure).

Specific target organ toxicity (repeated exposure) Evaluation Not to be classified as specific target organ toxic (repeated exposure).

#### Aspiration hazard

2,4,6-tris(dimethylaminomethyl)phenol

Aspiration hazard; Evaluation Not to be classified as aspirational.

#### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are:

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headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No information available.

**SECTION 12: Ecological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]  
Do not allow to enter into surface water or drains.

**12.1. Toxicity**

2,4,6-tris(dimethylaminomethyl)phenol  
Algae toxicity, ErC50: 84 mg/L (72 h)

**12.2. Persistence and degradability**

2,4,6-tris(dimethylaminomethyl)phenol  
Biodegradation: 4 percent (28 d)

**12.3. Bioaccumulative potential**

2,4,6-tris(dimethylaminomethyl)phenol  
Distribution coefficient n-octanol/water (log KOW): -0,66 ; Evaluation Does not significantly accumulate in organisms.

**12.4. Mobility in soil**

2,4,6-tris(dimethylaminomethyl)phenol  
soil:  
No data available

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

**List of proposed waste codes/waste designations in accordance with EWC**

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

**Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**14.1. UN number or ID number**

UN 1760

**14.2. UN proper shipping name**

Land transport (ADR/RID):

Corrosive liquid, n.o.s.  
(2,4,6-Tris(dimethylaminomethyl)

Sea transport (IMDG):

CORROSIVE LIQUID, N.O.S.

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Air transport (ICAO-TI / IATA-DGR):	(2,4,6-Tris(dimethylaminomethyl) Corrosive liquid, n.o.s. (2,4,6-Tris(dimethylaminomethyl)
14.3. Transport hazard class(es)	8
14.4. Packing group	III
14.5. Environmental hazards	
Land transport (ADR/RID)	not applicable
Marine pollutant	not applicable
14.6. Special precautions for user	
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage. Advices on safe handling: see parts 6 - 8	
<b>Further information</b>	
<b>Land transport (ADR/RID)</b>	
Tunnel restriction code	E
<b>Sea transport (IMDG)</b>	
EmS-No.	F-A, S-B
14.7. Maritime transport in bulk according to IMO instruments	
No transport as bulk according IBC - Code.	

### SECTION 15: Regulatory information

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

##### EU legislation

##### Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 20

##### National regulations

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

#### 15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
202-013-9 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	01-2119560597-27
203-468-6 107-15-3	ethylenediamine	01-2119480383-37

### SECTION 16: Other information

#### Full text of classification in section 3

Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

#### Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]  
Skin Irrit. 2                      Skin corrosion/irritation                      Calculation method.

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Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
Resp. Sens. 1	Respiratory or skin sensitisation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.