

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

DAW

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

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

1.1 Product identifier

Trade name : Disbon 481 EP-Uniprimer Masse Hellgrau

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

Use of the Substance/Mixture : Mass

Recommended restrictions on use : within adequate application - none

1.3 Details of the supplier of the safety data sheet

Company : DAW Coatings Nederland B.V.
Koperslager 2-4
3861 SJ Nijkerk

Telephone : +31332475000
Telefax : +31332451833
E-mail address : msds@dr-rmi.com

Responsible/issuing person

Emergency telephone number/ E-mail address : +31 (0)30-2748888 - Nationaal Vergiftigingen Informatie Centrum: uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity , Category 2 H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

Hazard statements	: H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	: Prevention: P262 P273 P281	Do not get in eyes, on skin, or on clothing. Avoid release to the environment. Use personal protective equipment as required.
	: Response: P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	: P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

Additional Labelling:

Restricted to professional users.

Labelling according to EC Directives: 1999/45/EC

Hazard symbols



Dangerous for the environment

R-phrases(s)	: R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	: S 2 S23 S26	Keep out of the reach of children. Do not breathe vapours, aerosols. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	: S29	Do not empty into drains.

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. No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration	Classification (67/548/EEC)	Classification (REGULATION (EC) No	Concentration [%]
---------------	-----------------------------------	--------------------------------	--	----------------------

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

	number		1272/2008)	
trizinc bis(orthophosphate)	7779-90-0 231-944-3	N; R50-R53	Aquatic Acute1; H410	>= 2,5 - < 10
benzyl alcohol	100-51-6 202-859-9 01-2119492630-38-xxxx	Xn; R20/22	Acute Tox.4; H302 Acute Tox.4; H332	>= 1 - < 10
aliphatic polyamidoamines	180898-36-6	Xi; R41	Eye Dam.1; H318	>= 1 - < 5
m-phenylenebis(methylamine)	1477-55-0 216-032-5 01-2119480150-50-xxxx	C; R34 Xn; R20/22 R43 R52-R53	Acute Tox.4; H302 Acute Tox.4; H332 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic4; H413	>= 0,1 - < 1
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 01-2119514687-32-xxxx	C; R34 Xn; R21/22 R43 R52-R53	Acute Tox.4; H302 Acute Tox.4; H312 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 0,1 - < 1

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.
- If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Do NOT use solvents or thinners.
- In case of eye contact : Remove contact lenses.
Immediately flush eyes for at least 15 minutes. Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.
If accidentally swallowed obtain immediate medical attention.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8. Treat recovered material as described in the section "Disposal considerations".

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Suitable cleaning agents
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

- Advice on protection against fire and explosion : No special protective measures against fire required.
- Hygiene measures : Ensure adequate ventilation, especially in confined areas. Avoid contact with the skin and the eyes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Keep working clothes separately. Wash hands before breaks and at the end of workday. Wash hands before eating, drinking, or smoking. Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store at room temperature in the original container. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. To maintain product quality, do not store in heat or direct sunlight.
- Advice on common storage : Keep away from oxidising agents and strongly acid or alkaline materials.
- Storage class (TRGS 510) : 10, Combustible liquids
- Other data : no data available

7.3 Specific end use(s)

- Specific use(s) : Please follow the technical information of the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
German trade association rules - BGR 192 Eye protection
- Hand protection
- Material : Nitrile rubber
- Break through time : 240 min
- Glove thickness : 0,4 mm
- Remarks : Before removing gloves clean them with soap and water.
Wear suitable gloves tested to EN374.

Polyvinyl alcohol or nitrile- butyl-rubber gloves The selected

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before removing gloves clean them with soap and water.
German trade association leaflet: Carry gloves (ZH 1/706)
German trade association leaflet: A 023 Hand and skin protection

Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : No personal respiratory protective equipment normally required.

No personal respiratory protective equipment normally required.

No personal respiratory protective equipment normally required.
Do not use for spraying.

Protective measures : Follow the skin protection plan.
German trade association leaflet: M 004 irritating substance/corrosive substance.

Environmental exposure controls

General advice : Do not let product enter drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : no data available
Odour Threshold : not applicable
pH : no data available
Melting point/range : not determined
Boiling point/boiling range : 100 °C
Flash point : 101 °C

Evaporation rate : not applicable
Flammability (solid, gas) : not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

Upper explosion limit	: not applicable
Lower explosion limit	: not applicable
Vapour pressure	: not determined
Relative vapour density	: not applicable
Relative density	: not applicable
Density	: 2,0000 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n-octanol/water	: not determined
Thermal decomposition	: no data available
Viscosity	
Viscosity, dynamic	: 15.000,0 mPa.s
Flow time	: not determined
Explosive properties	: not applicable
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

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Materials to avoid : Incompatible with acids and bases.
Amines

10.6 Hazardous decomposition products

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute toxicity (other routes of administration) : Remarks: No data is available on the product itself.

Components:

benzyl alcohol:

Acute oral toxicity : LD50 Oral rat: 1.230 mg/kg

Acute toxicity estimate : 500 mg/kg
Method: Converted acute toxicity point estimate

Acute dermal toxicity : LD50 Dermal rabbit: 2.000 mg/kg

3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Acute oral toxicity : LD50 Oral rat: 1.030 mg/kg

Acute toxicity estimate : 500 mg/kg
Method: Converted acute toxicity point estimate

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity :
Remarks: no data available

Acute toxicity estimate : 1.100 mg/kg
Method: Converted acute toxicity point estimate

Skin corrosion/irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation

Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

Respiratory or skin sensitisation

Product:

Remarks: no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

Further information

Product:

Remarks: No data is available on the product itself., Although the product only contains epoxy resins with high molecular weight, follow good industrial hygiene practice and avoid prolonged skin contact.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data is available on the product itself.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data is available on the product itself.

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: no data available

no data available

12.3 Bioaccumulative potential

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

Product:

Bioaccumulation : Remarks: no data available

Partition coefficient: n-octanol/water : Remarks: not determined

12.4 Mobility in soil

Product:

Mobility : Remarks: 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 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Only completely emptied containers should be given for recycling.
Liquid and hardened materials which contain organic solvents or other hazardous substances shall be disposed of as paint waste.
Uncured product residues are special/hazardous waste.

SECTION 14: Transport information

14.1 UN number

ADR : 3082
RID : 3082
IMDG : 3082
IATA : 3082

14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(trizinc bis(orthophosphate))
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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

14.3 Transport hazard class

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADR

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (E)

RID

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

IMDG

Packing group : III

Labels : 9

EmS Code : F-A, S-F

IATA

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

Packing instruction (LQ) : Y964

Packing group : III

Labels : 9

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Remarks : see sections 6-8

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

Remarks : not applicable

SECTION 15: Regulatory information

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

Water contaminating class : 2 water endangering
(Germany) Remarks: VVWS A4

Product code for laquers and : RE0 (Germany)
paints / Giscode

Volatile organic compounds : < 45 g/l

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of R-Phrases

R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.
R52	Harmful to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

Full text of H-Statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitisation

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, (EC) No. 453/2010

Disbon 481 EP-Uniprimer Masse Hellgrau

Version 1.1

Revision Date 09.09.2013

Print Date 11.09.2013

REACH and GHS/CLP Information

According to our legal obligations we will implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and GHS respectively the Regulation (EC) No 1272/2008. REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly. This will be put into practice depending on the register-deadline of the substances involved during the transition period from December 1, 2010 till May 31, 2018.

The amendment of safety data sheets of mixtures or preparations in accordance with GHS /CLP regulation will be carried out during a transitional period until June 1, 2015. We will conduct the adjustment of our safety data sheets during the time frame of the transitional period as soon as new information is available from our suppliers.