



## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixture/Substance: SDS EU 2015: According to Annex II of Regulation (EC) No. 453/2010 (REACH Annex II)

Skin sensitization	Category 2	H317
Eye irritation	Category 2	H319
Carcinogenicity:	Category 1A	H350

Full text of classification categories and H statement: see section 16

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display Extra classification(s) to display

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

Hazardous ingredients :

Hazard statements (CLP) : H317: May cause an allergic skin reaction  
H319: Cause serious eye irritation  
H330: May cause cancer

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling  
P281 - Use personal protective equipment as required  
P261 - Avoid breathing dust/fume/gas/mist/vapor/spray  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P302+P352 - IF ON SKIN: wash with plenty of soap and water  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P333+P313 - IF SKIN irritation or rash occurs: get medical advice/attention  
P308+P313 - IF exposed or concerned: get medical advice /attention  
P405 - Store locked up  
P501 - Dispose of content and container in accordance with existing federal, state and local environmental control laws

### 2.3. Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 30%

## Safety Data Sheet Reflex HPW & HPG 17-RHPW-5 & 17-RHPG-5

according to Regulation  
(EC) No. 1907/2006 (REACH)  
with its amendment Regulation (EC) No. 453/2010  
Federal register / vol 77 n° 58 03/26/2012  
Rules & regulations

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP] & GHS
Aluminum Hydroxide	(CAS No) 21645-51-2	10-20%	Eye irritation category 2B
Titanium Dioxide (Rutile)	(CAS No) 13463-67-7	5-10%	carcinogenicity category 2 inhalation Specific target organ toxicity - Single exposure category 3 respiratory system
Propylene Glycol	(CAS No) 57-55-6	1-5%	Eye irritation Category 2B Specific target organ toxicity - Single exposure category 3 respiratory system
1,3-Benzenedicarbonitrile, 2,4,5,6-Tetrachloro-	(CAS No) 1897-45-6	01. - 1%	Acute toxicity Category 2 inhalation Serious eye damage Category 1 Skin sensitization Category 1 Carcinogenicity Category 2
Benzophenone	(CAS No) 119-61-9	01. - 1%	Carcinogenicity Category 2 Specific target organ toxicity - repeated exposure Category 2 Liver, Kidney
Christalline Quartz Silica	(CAS No) 14808-60-7	01. - 1%	Acute toxicity Category 4 Oral Carcinogenicity Category 1A Specific target organ toxicity - repeated exposure Category 1 Lung

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

#### 3.2. Mixture

No information available

Full text of H-phrases: see section 16

**Safety Data Sheet**
  
**Reflex HPW & HPG**
  
**17-RHPW-5 & 17-RHPG-5**

according to Regulation
   
 (EC) No. 1907/2006 (REACH)
   
 with its amendment Regulation (EC) No. 453/2010
   
 Federal register / vol 77 n° 58 03/26/2012
   
 Rules & regulations

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

- First-aid measures after inhalation : Remove the victim into fresh air. Consult a doctor/medical service if you feel unwell.
- First-aid measures after skin contact : Wash immediately with lots of water. Wash with water and soap
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Keep eye wide open while rinsing. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth with water. Do not induce vomiting. Immediately consult a doctor/medical service.

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

- Symptoms/injuries after inhalation : No data available
- Symptoms/injuries after skin contact : May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash.
- Symptoms/injuries after eye contact : Causes serious eye irritation with symptoms of reddening, tearing, swelling, and burning
- Symptoms/injuries after ingestion : No data available

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media are suitable

Unsuitable extinguishing media : No data available

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

Fire hazard : Material presenting a minor fire hazard.

Explosion hazard : Heat may cause pressure rise with explosion risk.

Hazardous decomposition products in case of fire : By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic fumes

### 5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind.

Protection during firefighting : Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

**Safety Data Sheet**  
**Reflex HPW & HPG**  
**17-RHPW-5 & 17-RHPG-5**

according to Regulation  
(EC) No. 1907/2006 (REACH)  
with its amendment Regulation (EC) No. 453/2010  
Federal register / vol 77 n° 58 03/26/2012  
Rules & regulations

**SECTION 6: Accidental release measures**

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

General measures : Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Ventilate enclosed areas. Ventilate closed spaces before entering.

**6.1.1. For non-emergency personnel**

Protective equipment : Gloves. Safety glasses. Wear appropriate personal protective equipment during cleanup.

**6.1.2. For emergency responders**

Protective equipment : Equip cleanup crew with proper protection.

**6.2. Environmental precautions**

Avoid release to the environment.

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

For containment : Dam up the liquid spill. Do not touch or walk through spilled material.  
**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.  
**Large Spills:** Dam ahead of liquid spill for later disposal. Prevent entry into waterways, sewers, basements or confined areas. Surfaces may become slippery after spillage.

Methods for cleaning up : Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers.

**6.4. Reference to other sections**

No additional information available

**Safety Data Sheet**  
**Reflex HPW & HPG**  
**17-RHPW-5 & 17-RHPG-5**

according to Regulation  
(EC) No. 1907/2006 (REACH)  
with its amendment Regulation (EC) No. 453/2010  
Federal register / vol 77 n° 58 03/26/2012  
Rules & regulations

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

- Additional hazards when processed : None under normal use.
- Precautions for safe handling : Avoid contact with skin, eye and clothing. As with all chemicals, good industrial hygiene practices should be followed when handling this material. No special measures necessary provided product is used correctly
- Hygiene measures : Do no eat, drink or smoke when using this product.

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

- Storage conditions : Keep in a ventilated place. Protect against frost. Keep the container tightly closed. Avoid excessive heat.
- Incompatible products : No information available
- Storage temperature : 1 - 49°C / 33.8 - 120.2°F
- Packaging materials : Stainless steel. Glass. Plastics.

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

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

Personal protective equipment	: Gloves. Safety glasses.
Hand protection	: Gloves. NBR (Nitrile rubber).
Eye protection	: Safety glasses
Respiratory protection	: Under normal conditions, respirator is not normally required. If vapors are present or irritation is experienced, NIOSH approved respiratory protection for organic vapors should be worn. Provide for sufficient ventilation and suction at critical points. When spraying: Gas mask with filter type A



### 8.2. Exposure controls

Aluminum hydroxide (21645-51-2)	
ACGIH	Time Weighted Average (TWA): 1 mg/m3 (Respirable fraction.) Hazard Designation: Group A4 Not classifiable as a human carcinogen.
OSHA	No data available
Titanium dioxide (Rutile) (13463-67-7)	
ACGIH	Time Weighted Average (TWA): 10 mg/m3 Hazard Designation: Group A4 Not classifiable as a human carcinogen.
OSHA	Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Permissible exposure limit: 15 mg/m3 (Total dust.)
Crystalline Quartz Silica (14808-60-7)	
ACGIH	Time Weighted Average (TWA): 0.025 mg/m3 (Respirable fraction.) Hazard Designation: Group A2 Suspected human carcinogen.
OSHA	Table Z-3 (29 CFR 1910.1000) Time Weighted Average (TWA): 2.4 millions of particles per cubic foot of air (Respirable.)The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits. Table Z-3 (29 CFR 1910.1000) Time Weighted Average (TWA): 0.1 mg/m3 (Respirable.)The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits. Table Z-3 (29 CFR 1910.1000) Time Weighted Average (TWA): 0.3 mg/m3 (Total dust.)The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Slightly viscous mixture
Colour	: Various
Odour	: Mild, Amine
Odour threshold	: No data available
pH	: No data available
pH solution	: Alkaline Solution
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: 0°C / 32°F similar to water
Boiling point	: 100°C / 212°F Similar to water
Flash point	: Not applicable
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 17 mmHg @ 20°C (68°F) similar to water
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.5
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosion limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Hazardous polymerization does not occur.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

By Thermal Decomposition: carbon monoxide, carbon dioxide, Acrylic monomers, other potentially toxic fumes

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

LD50 oral rat	:	> 5000 mg/kg (Rat)
LD50 dermal rabbit	:	> 5000 mg/kg (Rabbit)
Skin corrosion/irritation	:	Causes skin irritation
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitisation	:	May cause allergic reaction
Mammalian cell mutagenicity	:	Negative
Carcinogenicity	:	Rat, Male/Female, inhalation, According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."
Reproductive toxicity	:	No data available
Specific target organ toxicity (single exposure)	:	No data available
Specific target organ toxicity (repeated exposure)	:	No data available
Aspiration hazard	:	Not classified

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

#### Toxicity Data for Titanium dioxide (Rutile)

**Acute oral toxicity** LD50: > 5000 mg/kg (rat, female) (OECD Test Guideline 425)

**Acute inhalation toxicity** LC50: > 6.82 mg/l, 4 h (rat, male)

**Acute dermal toxicity** LD50: > 10000 mg/kg (rabbit)

**Skin irritation** Rabbit, OECD Test Guideline 404, Exposure Time: 24 h, Non-irritating

**Eye irritation** Rabbit, OECD Test Guideline 405, Non-irritating

**Sensitization** Dermal: non-sensitizer (Guinea pig, Maximization Test)

Dermal: non-sensitizer (Human, Patch Test)

**Skin sensitization** (local lymph node assay (LLNA)): negative (mouse, OECD Test Guideline 429)

**Repeated dose toxicity** 28 Days, inhalation: NOAEL: 35 mg/m<sup>3</sup>, (Rat)

29 days, Oral: NOAEL: 24,000 mg/kg, (rat, male, daily)

Up to 2 years, inhalation: NOAEL: 0.01 mg/l, (Rat, male/female, 6 hrs/day 5 days/week)

#### Mutagenicity

##### Genetic toxicity in vitro:

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)

Chromosome aberration test: negative (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

##### Genetic toxicity in vivo:

Drosophila SLRL test: negative (Drosophila melanogaster) negative

##### Cytogenetic assay:

Negative (mouse, male, intraperitoneal) negative

##### Carcinogenicity

Rat, Male/Female, inhalation,

According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Additionally, the IARC working group determined that, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints."

**Other relevant toxicity information** May cause irritation of respiratory tract.

**Safety Data Sheet  
Reflex HPW & HPG  
17-RHPW-5 & 17-RHPG-5**

according to Regulation  
(EC) No. 1907/2006 (REACH)  
with its amendment Regulation (EC) No. 453/2010  
Federal register / vol 77 n° 58 03/26/2012  
Rules & regulations

**Toxicity Data for 1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-**

Acute oral toxicity LD50: > 10000 mg/kg (rat)  
Acute inhalation toxicity LC50: 0.217 mg/l, 4 h (rat) (OECD Test Guideline 403)  
Acute dermal toxicity LD50: > 10000 mg/kg (rabbit)  
Skin irritation Rabbit, Draize, Non-irritating  
Eye irritation Severe irritant  
Sensitization Skin sensitization: sensitizer (Human)

**Toxicity Data for Benzphenone**

Acute oral toxicity LD50: 2895 mg/kg (mouse) (OECD Guideline 401)  
Acute dermal toxicity LC50: 3535 mg/kg (rabbit)  
Skin irritation Rabbit, OECD Test Guideline 404, Non-irritating  
Sensitization Non-sensitizer: (guinea pig)  
Magnusson/Kligmann (Maximization Test); non-sensitizer (Guinea pig)  
Repeated dose toxicity 90d, oral: NOAEL: 20 mg/kg, LOAEL: 100 mg/kg, (rate male/female, daily) 14 weeks,  
Oral: (rat, male/female)  
Mutagenicity  
Genetic toxicity in vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)  
Mammalian cell - gene mutation assay: negative (Mouse lymphoma cells (L5178Y/TK),  
Metabolic Activation: with/without)  
Genetic toxicity in vivo: Micronucleus Assay: negative (mouse, male, intraperitoneal) negative  
Carcinogenicity Mouse, female, dermal, life span, No carcinogenic effects observed at the doses tested.  
Toxicity to reproduction Two-generation study, Oral, (rat, male/female) NOAEL (parental): 100 ppm, NOAEL (F1): 450 ppm,  
NOAEL (F2): 450 ppm  
Developmental toxicity Rat, female, Oral, GD 6-19, daily, NOAEL (maternal): < 100 mg/kg,

**Toxicity Data for Crystalline Quartz Silica**

Acute oral toxicity LD50: 500 mg/kg (rat)  
Mutagenicity  
Genetic toxicity in vitro: Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium,  
Metabolic Activation: with/without)  
Genetic toxicity in vivo: Sister Chromatid Exchange: ambiguous (hamster) ambiguous  
Carcinogenicity Rat, Male/Female, inhalation, 2 years, 6 hrs/day 5 days/week, positive

**Titanium dioxide (Rutile)**

IARC - Overall evaluation: 2B Possibly carcinogenic to humans.

**1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro- Crystalline Quartz Silica**

IARC - Overall evaluation: 2B Possibly carcinogenic to humans.  
NTP - Hazard Designation: Known To Be Human Carcinogen.  
IARC - Overall evaluation: 1 Carcinogenic to humans.

## SECTION 12: Ecological information

### 12.1. Toxicity

LC50 fishes 1	:	No data available
LC50 other aquatic organisms 1	:	No data available
Threshold limit other aquatic organism 1	:	No data available

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

#### Ecological Data for Aluminum hydroxide

Additional ecotoxicological remarks

No data available for this component.

#### Ecological Data for Titanium dioxide (Rutile)

Acute and prolonged toxicity to fish

LC0: > 1,000 mg/l (Golden orfe (Leuciscus idus), 48 h)

Acute toxicity to aquatic invertebrates

EC0: > 3 mg/l (Water flea (Daphnia magna))

Toxicity to microorganisms

EC0: > 10,000 mg/l, (Pseudomonas fluorescens, 24 h)

#### Ecological Data for Propylene glycol

Biodegradation

Aerobic, 100 %, Exposure time: 1 Days Anaerobic, 100 %, Exposure time: 9 Days

Biochemical oxygen demand (BOD)

5 Days, 1,170 mg/l

Chemical oxygen demand (COD)

2,600 mg/g

Theoretical biological oxygen demand (ThBOD)

0.45 mg/g

Bioaccumulation

< 1 BCF Calculated value

Acute and prolonged toxicity to fish

LC50: 51,400 mg/l (Fathead minnow (Pimephales promelas), 96 h)

LC50: 23,800 mg/l (Sheepshead minnow (Cyprinodon variegatus), 96 h)

Acute toxicity to aquatic invertebrates

EC50: > 10,000 mg/l (Water flea (Daphnia magna), 48 h)

Toxicity to aquatic plants

EC50: 19,000 mg/l, End Point: growth

(Green algae (Selenastrum capricornutum), 96 h)

Toxicity to microorganisms

EC50: 25,800 mg/l, (Photobacterium phosphoreum, 30 min) > 1,000 mg/l,

(Activated sludge microorganisms, 3 h)

#### Ecological Data for 1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-

Acute and prolonged toxicity to fish

LC50: 0.049 mg/l (Other fish)

LC50: 0.076 mg/l (Rainbow (Donaldson) Trout (Oncorhynchus mykiss), 96 h)

Acute toxicity to aquatic invertebrates

EC50: 0.2 mg/l (Water flea (Daphnia magna))

#### Ecological data for Benzophenone

Biodegradation

Aerobic, 0 %, 0 %, Exposure time: 28 d, i.e. not readily degradable

Bioaccumulation

Does not bioaccumulate.

Acute and prolonged toxicity to fish

LC50: 15.3 mg/l (Fathead minnow (Pimephales promelas), 96 h)

**Safety Data Sheet**  
**Reflex HPW & HPG**  
**17-RHPW-5 & 17-RHPG-5**

according to Regulation  
(EC) No. 1907/2006 (REACH)  
with its amendment Regulation (EC) No. 453/2010  
Federal register / vol 77 n° 58 03/26/2012  
Rules & regulations

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

- Regional legislation (Waste) : Disposal must be done according to official regulations.
- Sewage disposal recommendations : Avoid any discharge of the product into waste water. Do not discharge into drains, surface waters or ground waters. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA  
DOT Proper shipping name This product is not regulated by DOT, IMO or IATA.

### 14.1. UN number

Not regulated for transport

UN-No. (ADR)	:	Not applicable
UN-No. (IMDG)	:	UN3082
UN-No.(IATA)	:	UN3082
UN-No.(ADN)	:	Not applicable
UN-No. (RID)	:	Not applicable
Proper shipping name (ADR)	:	Not applicable
Proper shipping name (IMDG)	:	Not applicable
Proper shipping name (IATA)	:	Not applicable
Proper shipping name (ADN)	:	Not applicable
Proper shipping name (RID)	:	Not applicable
Transport document description (ADR)	:	Not applicable

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	:	No information available
Danger labels (ADR)	:	No information available

#### IMDG

Transport hazard class(es) (IMDG)	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Chlorothalonil). Class 9, Packaging group III
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#### IATA

Transport hazard class(es) (IATA)	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Chlorothalonil). Class 9, Packaging group III
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#### ADN

Transport hazard class(es) (ADN)	:	Not applicable
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#### RID

Transport hazard class(es) (RID)	:	Not applicable
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### 14.4. Packing group

Packing group (ADR)	:	No information available
Packing group (IMDG)	:	III
Packing group (IATA)	:	III
Packing group (ADN)	:	Not applicable
Packing group (RID)	:	Not applicable

**Safety Data Sheet**
  
**Reflex HPW & HPG**
  
**17-RHPW-5 & 17-RHPG-5**

according to Regulation
   
 (EC) No. 1907/2006 (REACH)
   
 with its amendment Regulation (EC) No. 453/2010
   
 Federal register / vol 77 n° 58 03/26/2012
   
 Rules & regulations

**14.5. Environmental hazards**

Dangerous for the environment : No supplementary information available
   
 Marine pollutant : No supplementary information available
   
 Other information : No supplementary information available

**14.6. Special precautions for user**

**- Overland transport**

Classification code (ADR) : No information available
   
 Special provision (ADR) : No information available
   
 Limited quantities (ADR) : No information available
   
 Excepted quantities (ADR) : No information available
   
 Packing instructions (ADR) : No information available
   
 Special packing provisions (ADR) : No information available
   
 Mixed packing provisions (ADR) : No information available
   
 Portable tank and bulk container instructions (ADR) : No information available
   
 Portable tank and bulk container special provisions (ADR) : No information available
   
 Tank code (ADR) : No information available
   
 Vehicle for tank carriage : No information available
   
 Transport category (ADR) : No information available
   
 Special provisions for carriage - Packages (ADR) : No information available
   
 Special provisions for carriage - Loading and unloading (ADR) : No information available
   
 Hazard identification number (Kemler No.) : No information available
   
 Orange plates : No information available
   
 Tunnel restriction code (ADR) : No information available
   
 EAC code : No information available

**- Transport by sea**

MFAG-No : No information available

**- Air transport**

No data available

**- Inland waterway transport**

Carriage prohibited (ADN) : No information available
   
 Not subject to ADN : No

**- Rail transport**

Carriage prohibited (RID) : No

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

Not applicable



**Safety Data Sheet**  
**Reflex HPW & HPG**  
**17-RHPW-5 & 17-RHPG-5**

according to Regulation  
(EC) No. 1907/2006 (REACH)  
with its amendment Regulation (EC) No. 453/2010  
Federal register / vol 77 n° 58 03/26/2012  
Rules & regulations

**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

No additional information available

**15.1.2. US Federal regulations**

Registration status: TSCA, US released / listed  
OSHA Hazard category: Not hazardous  
SARA Hazard Categories (EPCRA 311/312) : Acute Health Hazard Chronic Health Hazard

**15.1.4. Canada**

No additional information available

**15.1.4. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

**Safety Data Sheet  
Reflex HPW & HPG  
17-RHPW-5 & 17-RHPG-5**

according to Regulation  
(EC) No. 1907/2006 (REACH)  
with its amendment Regulation (EC) No. 453/2010  
Federal register / vol 77 n° 58 03/26/2012  
Rules & regulations

**SECTION 16: Other information**

Indication of changes:

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

SDS (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

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