Printing date 07.03.2017 Revision: 07.03.2017

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

- · 1.1 Product identifier
- · Trade name: MR® 72 White Contrast Paint

**Aerosol** 

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Life cycle stages

F Formulation or re-packing

IS Use at industrial Sites

· Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- Product category PC14 Metal surface treatment products
- · Process category

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC13 Treatment of articles by dipping and pouring

· Environmental release category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

- · Article category AC7 Metal articles
- · Application of the substance / the mixture

Testing material for nondestructive surface crack detection

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

MR® Chemie GmbH

Nordstr. 61-63

59427 Unna (Germany)

Tel. +49 (0)2303 95151 0

Fax: +49 (0)2303 95151 10

post@mr-chemie.de

www.mr-chemie.de

#### · Further information obtainable from:

MR Chemie GmbH, Dep. safety data sheets, Tel.: +49/(0)2303/95151-38, QS@mr-chemie.de

### 1.4 Emergency telephone number:

24h- Emergency Contact Phone Number

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident

Call Day or Night within USA and Canada: 1 800 424 9300 Outside USA and Canada: 001 703 527 3887

In-Country Emergency Number for:

Germany: 0800-181-7059

China: 4001 204937 (Mandarin)
Hong Kong: 800 968 793 (Cantonese)
India: 000 800 100 7141 (Hindi)
South Africa: 0 800 983 611 (English)

(WISAG FMO Cargo Service GmbH & CO.KG)

### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

(Contd. on page 2)

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

**Aerosol** 

(Contd. of page 1)



Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

#### · 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

### · Hazard pictograms





GHŠ02 GHŠ0<sup>.</sup>

#### · Signal word Danger

# · Hazard-determining components of labelling:

acetone

### · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

# · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

### · Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking. Buildup of explosive mixtures possible without sufficient ventilation.

### · 2.3 Other hazards

### · Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

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

### · 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-XXXX	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	20-30%

(Contd. on page 3)

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

Aerosol

			(Contd	l. of page 2)
	CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-73-XXXX	butanone	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	10-25%
	CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-XXXX	propane	Flam. Gas 1, H220 Press. Gas (Comp.), H280	10-25%
•	CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119486944-21-XXXX	butane	Flam. Gas 1, H220 Press. Gas (Comp.), H280	10-25%

· Propellant: Propane-Butane

· Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

After eve contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- · After swallowing: Not relevant aerosol can.
- · 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Information for doctor:

Grease with skin-cream to restore fat film in order to prevent skin inflammation.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

- 5.3 Advice for firefighters
- · **Protective equipment:** Wear self-contained respiratory protective device.

# **SECTION 6: Accidental release measures**

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

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

(Contd. on page 4)

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

**Aerosol** 

(Contd. of page 3)

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, e.g. electric lights. Do not pierce or burn, even after use.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from heat and direct sunlight.
- · 7.3 Specific end use(s) No further relevant information available.

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

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingredients with lin	nit values that require monitoring at the wor	kplace:
67-64-1 acetone		
IOELV (EU)	Long-term value: 1210 mg/m³, 500 ppm	
WEL (Great Britain)	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm	
AGW (Germany)	Long-term value: 1200 mg/m³, 500 ppm 2(I);Y, DFG, EU, AGS	
78-93-3 butanone		
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm	
WEL (Great Britain)	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, BMGV	
AGW (Germany)	Long-term value: 600 mg/m³, 200 ppm 1(I);DFG, EU, H, Y	
74-98-6 propane		
AGW (Germany)	Long-term value: 1800 mg/m³, 1000 ppm 4(II);DFG	
106-97-8 butane		
WEL (Great Britain)	Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)	
		(Contd. on page

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

**Aerosol** 

			(Contd. of page
AGW (Germany) Long-term value: 2400 mg 4(II);DFG			/m³, 1000 ppm
DNELs			
67-64-1 ac	etone		
Dermal Long-term - systemic effects, worker		- systemic effects, worker	186 mg/kg bw/day (worker)
Inhalative	Long-term	- systemic effects, worker	1210 mg/m³ (worker)
	Long-term	- local effects, worker	2420 mg/m³ (worker)
78-93-3 bu			
Dermal	Long-term	- systemic effects, worker	1161 mg/kg bw/day (worker)
Inhalative	Long-term	- systemic effects, worker	600 mg/m³ (worker)
PNECs			
67-64-1 ac	etone		
Aquatic cor	npartment,	freshwater	10.6 mg/L (freshwater)
Aquatic cor	mpartment	- marine water	1.06 mg/L (marine water)
Aquatic cor	mpartment-	- sediment in freshwater	30.4 mg/kg sed dw (sediment fresh water)
Aquatic cor	mpartment	sediment in marine water	3.04 mg/kg sed dw (sediment marine water)
Terrestrial	compartme	ent - soil	29.5 mg/kg dw (soil)
78-93-3 bu	tanone		
Aquatic cor	npartment,	freshwater	55.8 mg/L (sediment fresh water)
Aquatic cor	mpartment	- marine water	55.8 mg/L (marine water)
Aquatic cor	mpartment-	- sediment in freshwater	284.74 mg/kg sed dw (sediment fresh water)
			284.7 mg/kg sed dw (sediment marine water)
Terrestrial of	compartme	ent - soil	22.5 mg/kg dw (soil)
Oral secon	dary poisor	ning	1000 mg/kg food (food secundary poisoning)
Ingredient	s with bio	logical limit values:	
67-64-1 ac	etone		
Untersuchungsmaterial:			Jrin Expositionsende bzw. Schichtende
78-93-3 bu	tanone		
BMGV (Gre	eat Britain)	in) 70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one	
BGW (Germany)  5 mg/l Untersuchungsmaterial: U Probennahmezeitpunkt: E Parameter: 2-Butanon		5 mg/l Untersuchungsmaterial: l Probennahmezeitpunkt: E	Jrin Expositionsende bzw. Schichtende

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

(Contd. on page 6)

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

**Aerosol** 

(Contd. of page 5)

### · Respiratory protection:

Filter AX-P2

For good ventilation provide, this can be achieved by local or space exhaust. If the concentration lies over the job limit values, then, a certified respirator suitable for this purpose must be used.

#### Protection of hands:

Check the permeability prior to each anewed use of the glove.

For the permanent contact in work areas with heightened risk of injury (mechanical hazard) no recommendation for a suitable glove material can be given.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

# · Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.5 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### · Penetration time of glove material

Value for the permeation: Level ≤ 4

Supplier for suitable protection gloves:

ASD ArbeitsSicherheit Dortmund

Torstr. 101 - 37355 Niederorschel OT Rüdigershagen

Tel.: 02301 / 919543 - Fax: 02301 / 9453893

E-Mail: m.schnellhardt@t-online.de - http://www.arbeitssicherheitdortmund.de

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

· Eye protection: Safety glasses

Body protection: Protective work clothing

# **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical a	nd chemical properties
<ul> <li>General Information</li> </ul>	
· Appearance:	
Form:	Aerosol
Colour:	White
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling ra	nge: Not applicable, as aerosol.
· Flash point:	-97 °C
•	Basis: propellant
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	Not determined - aerosol.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.

- GB

(Contd. on page 7)

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

Aerosol

(Contd. of page 6) · Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Explosion limits: Lower: 1.5 Vol % 13.0 Vol % Upper: · Vapour pressure at 20 °C: 8300 hPa Basis: propellant · Spray can internal pressure (20 °C): 5.0 bar Spray can internal pressure (50 °C): 9.5 bar · Density at 20 °C: 0.94 a/cm3 Basis: active substance · Relative density Not determined. · Vapour density Not determined. · Evaporation rate Not applicable. · Solubility in / Miscibility with Not miscible or difficult to mix. water: · Partition coefficient: n-octanol/water: Not determined. · Viscosity: **Dynamic:** Not determined. Kinematic: Not determined. Organic solvents: 84 % 84 % VOC (EU) 9.2 Other information No further relevant information available.

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

Danger of bursting of the aerosol can during overheating

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	values rel	levant for classification:
67-64-1 a	cetone	
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rbt)
78-93-3 b	utanone	
Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rbt)

(Contd. on page 8)

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

Aerosol

- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure

May cause drowsiness or dizziness.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1: weakly water-endangering

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

### · 13.1 Waste treatment methods

#### Recommendation

Must be specially treated adhering to official regulations.

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

### Waste disposal key:

For this product no waste key number can be specified, because only the intended purpose permits an allocation. The waste key number is to be specified in arrangement with the regional waste disposal.

The indications for Waste key reflect the pure unmodified product and are only a recommendation.

	· European waste catalogue		
08 01 11* waste paint and varnish containing organic solvents or other dangerous substances			
15	5 01 10*	packaging containing residues of or contaminated by dangerous substances	

(Contd. on page 9)

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

**Aerosol** 

(Contd. of page 8)

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

ADR, IMDG, IATA  14.2 UN proper shipping name ADR IMDG AEROSOLS IATA AEROSOLS, flammable  14.3 Transport hazard class(es)  ADR  Class Label 2.5 F Gases. Label 2.1  IMDG, IATA  Class Label 2.1  14.4 Packing group ADR, IMDG, IATA  Void  14.5 Environmental hazards: Marine pollutant:  Marine pollutant:  Mo  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code  Stowage Code  Stowage Code  Segregation Code  Warning: Gases	14.1 UN-Number	
ADR IMDG IMTA  AEROSOLS AEROSOLS AEROSOLS, flammable  14.3 Transport hazard class(es)  ADR  Class Label  Class Label  2.1  IMDG, IATA  Class Label  2.1  14.4 Packing group ADR, IMDG, IATA  14.5 Environmental hazards: Marine pollutant:  No  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code  Stowage Code  Stowage Code  Stowage Code  Segregation Code  Segregation Code  AEROSOLS with a maximum capact of 1 litre: Category A. For AEROSOLS with a maximum capacity above 1 litre: Category B. For WAS AEROSOLS: category C. Clear of living quarters Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division of class 2.	ADR, IMDG, IATA	UN1950
IMDG IATA AEROSOLS, flammable  14.3 Transport hazard class(es)  ADR  Class 2 5F Gases. Label 2.1  IMMG, IATA  Class 2.1  IMMG, IATA  Class 2.1  Label 2.1  14.4 Packing group ADR, IMDG, IATA Void  14.5 Environmental hazards: Marine pollutant: No  14.6 Special precautions for user Danger code (Kemler): EMS Number: F-D,S-U Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacing of 1 litre: Category A. For AEROSOLS with a maximum capacing 1 litre: Category A. For AEROSOLS with a maximum capacing 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a capacity above 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.	14.2 UN proper shipping name	
IATA  AEROSOLS, flammable  14.3 Transport hazard class(es)  ADR  Class Label  Class	ADR	
14.3 Transport hazard class(es)  ADR  Class 2 5F Gases. Label 2.1  IMDG, IATA  Class 2.1  14.4 Packing group ADR, IMDG, IATA  Void  14.5 Environmental hazards: Marine pollutant: No  14.6 Special precautions for user Danger code (Kemler): EMS Number: F-D,S-U Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capac of 1 litre: Category B. For WAS AEROSOLS: Category C, Clear of living quarters Segregation Code SG6 For AEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separa" from" class 1 except for division 1.4. FAEROSOLS with a capacity above 1 litre Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.		
Class 2 5F Gases. Label 2.1  IMDG, IATA  Class 2.1  Label 2.1  14.4 Packing group ADR, IMDG, IATA  Void  14.5 Environmental hazards: Marine pollutant: No  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code  Swy 1 Protected from sources of heat. Swy 2 For AEROSOLS with a maximum capac of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category C, Clear of living quarters Segregation Code  Segregation Code  Segregation as for class 9. Stow "separa" from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.		AEROSOLS, flammable
Class 2 5F Gases. Label 2.1  IMDG, IATA  Class 2.1  Label 2.1  14.4 Packing group  ADR, IMDG, IATA Void  14.5 Environmental hazards: Marine pollutant: No  14.6 Special precautions for user Danger code (Kemler): EMS Number: F-D,S-U Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capact of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category A. For AEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separation" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litres Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.	14.3 Transport hazard class(es)	
Label 2.1  IMDG, IATA  Class 2.1  Label 2.1  14.4 Packing group ADR, IMDG, IATA Void  14.5 Environmental hazards: Marine pollutant: No  14.6 Special precautions for user Danger code (Kemler): EMS Number: F-D,S-U Stowage Code Warning: Gases	ADR	
Label 2.1  IMDG, IATA  Class 2.1  Label 2.1  14.4 Packing group ADR, IMDG, IATA Void  14.5 Environmental hazards: Marine pollutant: No  14.6 Special precautions for user Danger code (Kemler): EMS Number: F-D,S-U Stowage Code Warning: Gases	Class	2 SE Cases
Class Label 2.1  14.4 Packing group ADR, IMDG, IATA  Void  14.5 Environmental hazards: Marine pollutant: No  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code  SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capact of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category B. For WAS AEROSOLS: Category C, Clear of living quarters Segregation Code  SG69 For AEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.		
Class Label 2.1  14.4 Packing group ADR, IMDG, IATA Void  14.5 Environmental hazards: Marine pollutant: No  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capact of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category B. For WAS AEROSOLS: Category C, Clear of living quarters Segregation Code SG69 For AEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a capacity above 1 litres Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.		2.1
14.5 Environmental hazards:  Marine pollutant:  14.6 Special precautions for user  Danger code (Kemler):  EMS Number:  Stowage Code  Sw1 Protected from sources of heat.  Sw22 For AEROSOLS with a maximum capact of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category B. For WAS AEROSOLS: Category C, Clear of living quarters  Segregation Code  Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.	Class Label 14.4 Packing group	
Marine pollutant:  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code  Sw1 Protected from sources of heat. Sw22 For AEROSOLS with a maximum capac of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category B. For WAS AEROSOLS: Category C, Clear of living quarters Segregation Code  Segregation Code  Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.	ADR, IMDG, IATA	Void
Danger code (Kemler):  EMS Number:  Stowage Code  SW1 Protected from sources of heat.  SW22 For AEROSOLS with a maximum capac of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category B. For WAS AEROSOLS: Category C, Clear of living quarters SG69 For AEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separate from" class 1 except for division 1.4. FAEROSOLS with a capacity above 1 litres Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.	14.5 Environmental hazards: Marine pollutant:	No
Stowage Code  SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capac of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category B. For WAS AEROSOLS: Category C, Clear of living quarters SG69 For AEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. F AEROSOLS with a capacity above 1 litt Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.	14.6 Special precautions for user Danger code (Kemler):	Warning: Gases.
SW22 For AEROSOLS with a maximum capac of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category B. For WAS AEROSOLS: Category C, Clear of living quarters SG69 For AEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a capacity above 1 litt Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.	EMS Number:	F-D,S-U
1 litre: Segregation as for class 9. Stow "separate from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 little Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.  14.7 Transport in bulk according to Annex II	Stowage Code	SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with capacity above 1 litre: Category B. For WAS AEROSOLS: Category C, Clear of living quarters
	Segregation Code	SG69 For AEROSOLS with a maximum capacity 1 litre: Segregation as for class 9. Stow "separat from" class 1 except for division 1.4. FAEROSOLS with a capacity above 1 little Segregation as for the appropriate subdivision class 2. For WASTE AEROSOLS: Segregation for the appropriate subdivision of class 2.
of Marpol and the IBC Code Not applicable.		

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

**Aerosol** 

(Contd. of page 9)

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· Transport category 2 · Tunnel restriction code D

·IMDG

· Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity

· UN "Model Regulation": UN1950, AEROSOLS, 2.1

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Waterhazard class:

Water hazard class 1: slightly hazardous for water.(In accordance with classification VwVwS,appendix 4)

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

The data in this safety data sheet are based on our knowledge at the time of the revision. The information should give you reference points for a safe handling of the product specified in this safety data sheet. The data are not transferable to other products. If the product specified in this safety data sheet is mixed or processed with other materials, the data cannot be transferred without examination.

### Relevant phrases

The wording of the listed risk phrases are those of the individual raw materials.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

### · Recommended restriction of use

Existing national and local laws concerning chemicals are to be considered.

#### · Department issuing SDS:

MR Chemie GmbH, Dep. safety data sheets, Tel.: +49/(0)2303/95151-38

Contact:

MR Chemie GmbH, Dep. safety data sheets, Tel.: +49/(0)2303/95151-38, QS@mr-chemie.de

(Contd. on page 11)

Printing date 07.03.2017 Revision: 07.03.2017

Trade name: MR® 72 White Contrast Paint

**Aerosol** 

(Contd. of page 10)

### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases - Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

\* Data compared to the previous version altered.