Printing date 18.04.2017

1.1 Product id	lentifier	
	MR® 71 Paint Remove	er
-		substance or mixture and uses advised against
Life cycle stag	ges	5
	n or re-packing	
IS Use at indu		
Sector of Use		
	acture of basic metals,	nces as such or in preparations at industrial sites
Product categ		
	surface treatment produ	ucts
	gs and paints, thinners,	
PC35 Washir	ng and cleaning produc	ts (including solvent based products)
Process cate	jory	
PROC7 Indus		aisture (abauning and disabauning) at your dedicated facilitie
	atment of articles by di	nixture (charging and discharging) at non-dedicated facilitie
	al release category	pping and pouning
		ng aid at industrial site (no inclusion into or onto article)
	ry AC7 Metal articles	o (
	f the substance / the i	
Testing materi	al for nondestructive su	urfana araak dataatian
1.3 Details of Manufacturer MR® Chemie	the supplier of the sa / Supplier: GmbH	
1.3 Details of Manufacturer MR® Chemie 0 Nordstr. 61-63 59427 Unna (0 Tel. +49 (0)230 Fax: +49 (0)23 post@mr-chem	the supplier of the sa / Supplier: GmbH Germany) 03 95151 0 103 95151 10 nie.de	
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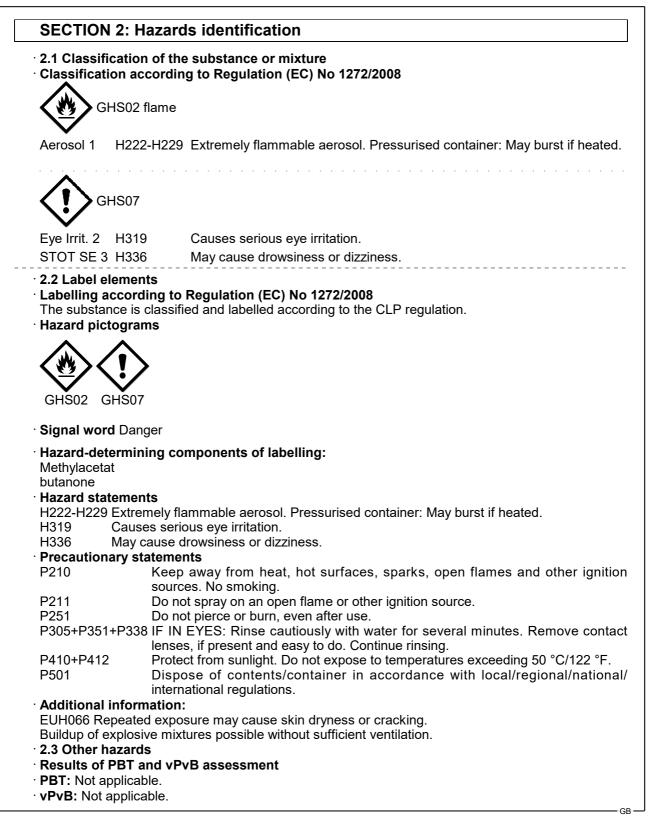
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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components: Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 CAS: 79-20-9 Methylacetat 30-40% EINECS: 201-185-2 Reg.nr.: 01-2119459211-47-XXXX CAS: 78-93-3 25-30% butanone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EINECS: 201-159-0 Reg.nr.: 01-2119457290-73-XXXX CAS: 74-98-6 propane Flam. Gas 1, H220 15-20% EINECS: 200-827-9 Press. Gas (Comp.), H280 Reg.nr.: 01-2119486944-21-XXXX CAS: 106-97-8 15-20% butane Flam, Gas 1, H220 EINECS: 203-448-7 Acute Tox. 3, H331 Reg.nr.: 01-2119474691-32-XXXX Press. Gas (Comp.), H280

· 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. Take affected persons out into the fresh air.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

Take affected persons into fresh air and keep quiet.

Seek medical treatment in case of complaints.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

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

• After swallowing:

Do not induce vomiting; call for medical help immediately.

- Not relevant aerosol can.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available. Headache
- Stupor
- Unconsciousness
- Nausea
- · 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

· Suitable extinguishing agents:

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

• For safety reasons unsuitable extinguishing agents: Water with full jet

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• 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** Ensure adequate ventilation Keep away from ignition sources. 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. 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 No special precautions are necessary if used correctly.

 \cdot Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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.

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

- · 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.
- Store away from foodstuffs.
- 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 limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

79-20-9 Methylace	at
WEL (Great Britain)	Short-term value: 770 mg/m ³ , 250 ppm
	Long-term value: 616 mg/m³, 200 ppm
AGW (Germany)	Long-term value: 610 mg/m³, 200 ppm 4(II);DFG, Y
	(Contd. on page 5)

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78-93-3 bu	tanone		(Contd. of pa
IOELV (EU)	Short-term value: 900 mg/n	n³, 300 ppm
		Long-term value: 600 mg/m	
WEL (Grea	t Britain)		
		Long-term value: 600 mg/m Sk, BMGV	¹⁹ , 200 ppm
AGW (Gerr	nanv)	Long-term value: 600 mg/m	³ 200 ppm
	nany)	1(I);DFG, EU, H, Y	, 200 ppm
74-98-6 pro	•		
AGW (Gerr	nany)	Long-term value: 1800 mg/ 4(II);DFG	m³, 1000 ppm
106-97-8 b	utane		
WEL (Grea	t Britain)		
		Long-term value: 1450 mg/ Carc (if more than 0.1% of	
AGW (Gerr	nanvi	Long-term value: 2400 mg/	
	nany)	4(II);DFG	, 1000 ppm
DNELs			
79-20-9 Me	thylacet	at	
Dermal I	_ong-tern	n - systemic effects, worker	88 mg/kg bw/day (worker)
Inhalative I	_ong-tern	n - systemic effects, worker	610 mg/m³ (worker)
78-93-3 bu	tanone		
Dermal I	_ong-tern	n - systemic effects, worker	1161 mg/kg bw/day (worker)
Inhalative I	_ong-tern	n - systemic effects, worker	600 mg/m³ (worker)
PNECs			
79-20-9 Me	thylacet	at	
•	•	nt, freshwater	0.12 mg/L (freshwater)
•	•	nt - marine water	0.012 mg/L (marine water)
Aquatic co releases	ompartm	nent - water intermittent	1.2 mg/L (intermittent release water)
Aquatic con	npartmer	nt- sediment in freshwater	0.128 mg/kg sed dw (sediment fresh water)
•	•	nt sediment in marine water	0.0128 mg/kg sed dw (sediment marine water
Terrestrial o	compartn	nent - soil	0.0416 mg/kg dw (soil)
Sewage tre	•		600 mg/L (sewage treatment plant)
Oral second		oning	20.4 mg/kg food (food secundary poisoning)
78-93-3 bu			
•	•	nt, freshwater	55.8 mg/L (sediment fresh water)
Aquatic compartment - marine water			55.8 mg/L (marine water)
Aquatic con	npartmer	nt- sediment in freshwater	284.74 mg/kg sed dw (sediment fresh water)
			284.7 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil			22.5 mg/kg dw (soil)
Oral second		-	1000 mg/kg food (food secundary poisoning)
Ingredients	s with bi	ological limit values:	
78-93-3 bu			

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· pH-value:

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	(Canta of nora
BMGV (Great Britai	n) 70 µmol/l
DIVIGV (Great Dritan	Medium: urine
	Sampling time: post shift
	Parameter: butan-2-one
BGW (Germany)	5 mg/l
	Untersuchungsmaterial: Urin
	Probennahmezeitpunkt: Expositionsende bzw. Schichtende
	Parameter: 2-Butanon
• Additional informa	tion: The lists valid during the making were used as basis.
· 8.2 Exposure cont	
 Personal protectiv 	
	and hygienic measures:
	odstuffs, beverages and feed.
Immediately remove	e all soiled and contaminated clothing
Wash hands before	breaks and at the end of work.
Do not inhale gases	
Avoid contact with the	
· Respiratory protect	
	n provide, this can be achieved by local or space exhaust. If the concentration
	it values, then, a certified respirator suitable for this purpose must be used.
Filter AX	
· Protection of hand	ls:
Check the permeab	ility prior to each anewed use of the glove.
	igainst chemicals in areas with heightened risk of injury (mechanical hazard) r
	r a suitable glove material can be given.
· Material of gloves	ů ů
Butyl rubber, BR	
	kness of the material: \ge 0.7 +/- 0.1 mm
	e suitable gloves does not only depend on the material, but also on further mark
	s from manufacturer to manufacturer. As the product is a preparation of sever
	istance of the glove material can not be calculated in advance and has therefor
to be checked prior	
· Penetration time o	
Value for the perme	
	bugh time has to be found out by the manufacturer of the protective gloves ar
has to be observed.	
Supplier for suitable	
ASD ArbeitsSicherh	
	Niederorschel OT Rüdigershagen
	3 - Fax: 02301 / 9453893
	rdt@t-online.de - http://www.arbeitssicherheitdortmund.de
	U
• Eye protection: Sa	
• Body protection: Sa	
Body protection: F	
Body protection: F	ysical and chemical properties
Body protection: F SECTION 9: Ph 9.1 Information on	ysical and chemical properties basic physical and chemical properties
Body protection: F	ysical and chemical properties basic physical and chemical properties
Body protection: F SECTION 9: Ph 9.1 Information on	ysical and chemical properties basic physical and chemical properties
• Body protection: F SECTION 9: Ph • 9.1 Information on • General Informatio	ysical and chemical properties basic physical and chemical properties
• Body protection: F SECTION 9: Ph • 9.1 Information on • General Informatio • Appearance:	ysical and chemical properties basic physical and chemical properties on Aerosol
• Body protection: F SECTION 9: Ph • 9.1 Information on • General Informatio • Appearance: Form:	ysical and chemical properties basic physical and chemical properties

Not determined.

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	(Contd. of page
 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	Undetermined. 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.
· Explosive properties:	Product is not explosive. However, formation o explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1.5 Vol %
Upper:	16.0 Vol %
[.] Vapour pressure at 20 °C:	8300 hPa Basis: propellant
· Density at 20 °C:	0.774 g/cm ³
-	Basis: active substance
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	100.0 %
VOC (EU)	100 %
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.
- Possible formation of peroxide.
- 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.

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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 relevant for classification: 79-20-9 Methylacetat Oral LD50 3705 mg/kg (rbt) 78-93-3 butanone Oral LD50 3300 mg/kg (rat) Dermal LD50 5000 mg/kg (rbt) 106-97-8 butane Inhalative LC50/4 h 658 mg/l (rat) · Primary irritant effect: • Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Causes serious eve 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 Easily biodegradable
- 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 undiluted product or large quantities of it 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 not be disposed together with household garbage. Do not allow product to reach sewage system.

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· 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.

· Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

14.1 UN-Number	
ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR	1950 AEROSOLS
	AEROSOLS
	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class	2 5F Gases.
Label	2.1
IMDG, IATA	
Class Label	2.1 2.1
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler): EMS Number:	- F-D,S-U
14.7 Transport in bulk according to An	nex ll
of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
Transport ostagon/	Not permitted as Excepted Quantity
Transport category Tunnel restriction code	2 D

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·	IMDG	

Limited quantities (LQ) Excepted quantities (EQ)

Excepted quantities (EQ)

· UN "Model Regulation":

SECTION 15: Regulatory information

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

1L

Code: E0

Not permitted as Excepted Quantity

UN1950, AEROSOLS, 2.1

- · 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

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. H331 Toxic if inhaled. 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, Abtlg. Sicherheitsdatenblätter, Tel.: +49/(0)2303/95151-38 Contact: MR Chemie GmbH, Dep. safety data sheets, Tel.: +49/(0)2303/95151-38, QS@mr-chemie.de Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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

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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 Acute Tox. 3: Acute toxicity – Category 3 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. (Contd. of page 10)

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