

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Version number: GHS 2.0
Replaces version of: 2020-02-04 (GHS 1)

Revision: 2020-10-12

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

1.1 Product identifier

Trade name **PROMAT CHEMICALS ROSTPRIMER 400 ml**
Unique formula identifier (UFI) SV60-P01C-A00D-R8CN
Article number 4000 354670 (GRAU/GRIJS/GRIS/SZARY)
4000 354675 (ROTBRAUN/ROODBRUJN/ROUGEBRUN/CZERWONO-BRĄZOWY)

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

Relevant identified uses general use
anti-corrosion coating
Uses advised against do not use for products which come into contact with foodstuffs

1.3 Details of the supplier of the safety data sheet

NORDWEST Handel AG
Robert-Schuman-Straße 17
44263 Dortmund
Germany

Telephone: +49 (0)231 2222-3001
Telefax: +49 (0)231 2222-3099
Website: www.nordwest.com

e-Mail (competent person): sdb@nordwest.com

1.4 Emergency telephone number

Austria: Vergiftungsinformationszentrale der Gesundheit +43 1 406 43 43
Germany: Beratungsstelle bei Vergiftungen Giftinformation- +49(0)6131 / 19240
zentrale der Länder Rheinland-Pfalz und Hessen
Switzerland: Tox Info Suisse 145, 24h oder +41 44 251 51 51

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H229
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	Cat. 3	(STOT SE 3)	H336
4.1C	hazardous to the aquatic environment - chronic hazard	Cat. 3	(Aquatic Chronic 3)	H412

Remarks

For full text of H-phrases: see SECTION 16.

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains 2-butanone oxime, Cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word danger

Pictograms

GHS02, GHS07



H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
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 labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains 2-butanone oxime, Cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

Hazardous ingredients for labelling:

Acetone. Butanone. Hydrocarbons, C9, aromatics. 1-Methoxy-2-propylacetate.

2.3 Other hazards

There is no additional information.









Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description of the mixture

Hazardous ingredients acc. to EU regulation				
Name of substance	Identifier	Wt%	Classification acc. to 1272/2008/EC	Pictograms
acetone	CAS No 67-64-1 EC No 200-662-2 REACH Reg. No 01-2119471330-49	25 – < 50	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 
butane	CAS No 106-97-8 EC No 203-448-7 REACH Reg. No 01-2119474691-32	10 – < 25	Flam. Gas 1 / H220 Press. Gas L / H280	 
Propan	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21	5 – < 10	Flam. Gas 1 / H220 Press. Gas L / H280	 
Butanon	CAS No 78-93-3 EC No 201-159-0 REACH Reg. No 01-2119457290-43-xxxx	5 – < 10	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336	 

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Hazardous ingredients acc. to EU regulation				
Name of substance	Identifier	Wt%	Classification acc. to 1272/2008/EC	Pictograms
Lösungsmittelnaphtha (Erdöl), leichte aromatische	CAS No 64742-95-6 EC No 265-199-0 REACH Reg. No 01-2119455851-35-xxxx	1 - < 5	Flam. Liq. 3 / H226 STOT SE 3 / H335 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411	
1-Methoxy-2-propylacetate	CAS No 108-65-6 EC No 203-603-9 REACH Reg. No 01-2119475791-29-xxxx	1 - < 5	Flam. Liq. 3 / H226 STOT SE 3 / H336	
xylene	CAS No 1330-20-7 EC No 215-535-7 REACH Reg. No 01-2119488216-32-xxxx	1 - < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315	
Butan-1-ol	CAS No 71-36-3 EC No 200-751-6 REACH Reg. No 01-2119484630-38-xxxx	1 - < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335	
Solvent naphtha (petroleum), heavy arom.	CAS No 64742-94-5 EC No 265-198-5 REACH Reg. No 01-2119510128-50-xxxx	1 - < 5	Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
ethylbenzene	CAS No 100-41-4 EC No 202-849-4 REACH Reg. No 01-2119489370-35-xxxx	< 1	Flam. Liq. 2 / H225 Acute Tox. 4 / H332 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412	
isobutane	CAS No 75-28-5 EC No 200-857-2 REACH Reg. No 01-2119485395-27	< 1	Flam. Gas 1 / H220 Press. Gas L / H280	
Butanone oxime	CAS No 96-29-7 EC No 202-496-6 REACH Reg. No 01-2119539477-28-xxxx	< 1	Acute Tox. 4 / H312 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Carc. 2 / H351	

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Hazardous ingredients acc. to EU regulation				
Name of substance	Identifier	Wt%	Classification acc. to 1272/2008/EC	Pictograms
Trizinc bis(orthophosphate)	CAS No 7779-90-0 EC No 231-944-3 REACH Reg. No 01-2119485044-40-xxxx	< 1	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water. Take off contaminated clothing.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, BC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Collect spillage (universal binder).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Observe instructions for use. Keep out of reach of children.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Source
DE	hydrocarbon mixture (RCP method)			AGW		250		500			TRGS 900
DE	ethylbenzene	100-41-4	H, Y	AGW	20	88	40	176			TRGS 900
DE	butane	106-97-8		AGW	1,000	2,400	4,000	9,600			TRGS 900
DE	1-methoxy-2-propyl acetate	108-65-6		MAK	50	270	50	270			DFG
DE	2-methoxy-1-methylethyl acetate	108-65-6	Y	AGW	50	270	50	270			TRGS 900
DE	xylene, mixture of isomers	1330-20-7		MAK	50	220	100	440			DFG
DE	xylene, mixture of isomers	1330-20-7	H	AGW	100	440	200	880			TRGS 900

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Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Source
DE	acetone	67-64-1	Y	AGW	500	1,200	1,000	2,400			TRGS 900
DE	butan-1-ol	71-36-3	Y	AGW	100	310	100	310			TRGS 900
DE	propane	74-98-6		AGW	1,000	1,800	4,000	7,200			TRGS 900
DE	isobutane	75-28-5		AGW	1,000	2,400	4,000	9,600			TRGS 900
DE	butanone	78-93-3	H, Y	AGW	200	600	200	600			TRGS 900
DE	butanone oxime	96-29-7	H, Sh, Y	AGW	0.3	1	2.4	8			TRGS 900
EU	ethylbenzene	100-41-4		IOEL V	100	442	200	884			2000/39/EC
EU	2-methoxy-1-methylethyl acetate	108-65-6		IOEL V	50	275	100	550			2000/39/EC
EU	xylene	1330-20-7		IOEL V	50	221	100	442			2000/39/EC
EU	acetone	67-64-1		IOEL V	500	1,210					2000/39/EC
EU	ethyl methyl ketone	78-93-3		IOEL V	200	600	300	900			2000/39/EC

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur
H absorbed through the skin
Sh skin-sensitising substances
STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
Y a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
DE	ethylbenzene	mandelic acid, benzoyl-formic acid		BAT	250 mg/l	DFG
DE	ethylbenzene	mandelic acid, benzoyl-formic acid	crea	BLV	250 mg/g	TRGS 903
DE	xylene, mixture of isomers	methylhippuric acids		BAT	2,000 mg/l	DFG
DE	xylene, mixture of isomers	methylhippuric acids		BLV	2,000 mg/l	TRGS 903
DE	acetone	acetone		BLV	80 mg/l	TRGS 903
DE	1-butanol	1-butanol	crea	BLV	2 mg/g	TRGS 903
DE	1-butanol	1-butanol	hydr, crea	BLV	10 mg/g	TRGS 903
DE	butanone (methyl ethyl ketone)	2-butanone		BLV	2 mg/l	TRGS 903

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Country	Name of agent	Parameter	Notation	Identifier	Value	Source
DE	butanone (methyl ethyl ketone)	ethyl methyl ketone		BAT	2 mg/l	DFG

Notation

crea creatinine
hydr hydrolysis

Relevant DNELs/DMELs/PNECs and other threshold levels

- relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
acetone	67-64-1	DNEL	2,420 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
acetone	67-64-1	DNEL	186 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
acetone	67-64-1	DNEL	1,210 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
butanone	78-93-3	DNEL	1,161 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
butanone	78-93-3	DNEL	600 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C9, aromatics	64742-95-6	DNEL	25 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C9, aromatics	64742-95-6	DNEL	150 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1-Methoxy-2-propylacetate	108-65-6	DNEL	275 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1-Methoxy-2-propylacetate	108-65-6	DNEL	550 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
1-Methoxy-2-propylacetate	108-65-6	DNEL	796 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	289 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
xylene	1330-20-7	DNEL	289 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
xylene	1330-20-7	DNEL	180 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
xylene	1330-20-7	DNEL	77 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Butan-1-ol	71-36-3	DNEL	310 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
ethylbenzene	100-41-4	DNEL	293 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
ethylbenzene	100-41-4	DNEL	180 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
ethylbenzene	100-41-4	DNEL	77 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-butanone oxime	96-29-7	DNEL	9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-butanone oxime	96-29-7	DNEL	3.33 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects

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Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-butanone oxime	96-29-7	DNEL	1.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-butanone oxime	96-29-7	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
trizinc bis(orthophosphate)	7779-90-0	DNEL	5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
trizinc bis(orthophosphate)	7779-90-0	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

• relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
acetone	67-64-1	PNEC	10.6 mg/l	aquatic organisms	freshwater	short-term (single instance)
acetone	67-64-1	PNEC	1.06 mg/l	aquatic organisms	marine water	short-term (single instance)
acetone	67-64-1	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
acetone	67-64-1	PNEC	30.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
acetone	67-64-1	PNEC	3.04 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
acetone	67-64-1	PNEC	29.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
acetone	67-64-1	PNEC	21 mg/l	aquatic organisms	water	intermittent release
butanone	78-93-3	PNEC	55.8 mg/l	aquatic organisms	freshwater	short-term (single instance)
butanone	78-93-3	PNEC	55.8 mg/l	aquatic organisms	marine water	short-term (single instance)
butanone	78-93-3	PNEC	709 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
butanone	78-93-3	PNEC	284.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
butanone	78-93-3	PNEC	284.7 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
butanone	78-93-3	PNEC	1,000 mg/kg	aquatic organisms	water	short-term (single instance)
butanone	78-93-3	PNEC	22.5 mg/kg	terrestrial organisms	soil	short-term (single instance)
butanone	78-93-3	PNEC	55.8 mg/l	aquatic organisms	water	intermittent release
1-Methoxy-2-propylacetate	108-65-6	PNEC	6.35 mg/l	aquatic organisms	water	intermittent release
1-Methoxy-2-propylacetate	108-65-6	PNEC	0.635 mg/l	aquatic organisms	freshwater	short-term (single instance)
1-Methoxy-2-propylacetate	108-65-6	PNEC	0.064 mg/l	aquatic organisms	marine water	short-term (single instance)

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Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
1-Methoxy-2-propylacetate	108-65-6	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1-Methoxy-2-propylacetate	108-65-6	PNEC	3.29 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1-Methoxy-2-propylacetate	108-65-6	PNEC	0.329 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1-Methoxy-2-propylacetate	108-65-6	PNEC	0.29 mg/kg	terrestrial organisms	soil	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	freshwater	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	marine water	short-term (single instance)
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
xylene	1330-20-7	PNEC	2.31 mg/kg	terrestrial organisms	soil	short-term (single instance)
xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	water	intermittent release
xylene	1330-20-7	PNEC	6.58 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Butan-1-ol	71-36-3	PNEC	0.082 mg/l	aquatic organisms	freshwater	short-term (single instance)
Butan-1-ol	71-36-3	PNEC	0.008 mg/l	aquatic organisms	marine water	short-term (single instance)
Butan-1-ol	71-36-3	PNEC	2.25 mg/l	aquatic organisms	water	intermittent release
Butan-1-ol	71-36-3	PNEC	2,476 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Butan-1-ol	71-36-3	PNEC	0.178 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Butan-1-ol	71-36-3	PNEC	0.018 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Butan-1-ol	71-36-3	PNEC	0.015 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethylbenzene	100-41-4	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethylbenzene	100-41-4	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)
ethylbenzene	100-41-4	PNEC	9.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethylbenzene	100-41-4	PNEC	1.37 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethylbenzene	100-41-4	PNEC	2.68 mg/kg	terrestrial organisms	soil	short-term (single instance)

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Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
ethylbenzene	100-41-4	PNEC	0.1 mg/l	aquatic organisms	water	intermittent release
ethylbenzene	100-41-4	PNEC	13.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-butanone oxime	96-29-7	PNEC	0.256 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-butanone oxime	96-29-7	PNEC	177 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
trizinc bis(orthophosphate)	7779-90-0	PNEC	20.6 µg/l	aquatic organisms	freshwater	short-term (single instance)
trizinc bis(orthophosphate)	7779-90-0	PNEC	6.1 µg/l	aquatic organisms	marine water	short-term (single instance)
trizinc bis(orthophosphate)	7779-90-0	PNEC	100 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
trizinc bis(orthophosphate)	7779-90-0	PNEC	117.8 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
trizinc bis(orthophosphate)	7779-90-0	PNEC	56.5 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
trizinc bis(orthophosphate)	7779-90-0	PNEC	35.6 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)



Eye/face protection

Use protective eyewear to guard against splash of liquids.

Skin protection

• **hand protection**

Wear protective gloves. (Splash protection)

• **type of material**

NR: natural rubber, latex, FKM: fluoro-elastomer

• **breakthrough times of the glove material**

>480 minutes (permeation: level 6)

• **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection

Full face mask/half mask/quarter mask (EN 136/140)

Type: AX-P2 (gas filters and combined filters against low-boiling point organic compounds and particles, colour code: Brown/White)

Environmental exposure controls

Use appropriate container to avoid environmental contamination.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state aerosol (spray aerosol)
Colour acc. to product description
Odour characteristic

Other physical and chemical parameters

Melting point/freezing point not applicable (aerosol)
Initial boiling point and boiling range not applicable (aerosol)
Flash point not applicable (aerosol)
Flammability (solid, gas) flammable aerosol in accordance with GHS criteria
Explosive limits
• lower explosion limit (LEL) 1.5 vol% (50 g/m³)
• upper explosion limit (UEL) 15 vol% (350 g/m³)
Vapour pressure 4,200 hPa at 20 °C
Density 0.9108 – 0.9127 g/ml (calculated value)
Solubility(ies) not determined
Partition coefficient
n-octanol/water (log KOW) This information is not available.
Auto-ignition temperature 220 °C (auto-ignition temperature (liquids and gases))
Viscosity not relevant (aerosol)
Explosive properties none
Oxidising properties none

9.2 Other information There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. - Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

Physical stresses which might result in a hazardous situation and have to be avoided

high temperatures

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin or if inhaled.

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• Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
xylene	1330-20-7	dermal	1,100 mg/kg
xylene	1330-20-7	inhalation: vapour	11 mg/l/4h
Butan-1-ol	71-36-3	oral	500 mg/kg
ethylbenzene	100-41-4	inhalation: vapour	11 mg/l/4h
2-butanone oxime	96-29-7	dermal	1,100 mg/kg

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
acetone	67-64-1	oral	LD50	5,800 mg/kg	rat
Hydrocarbons, C9, aromatics	64742-95-6	dermal	LD50	>3,160 mg/kg	rabbit
1-Methoxy-2-propylacetate	108-65-6	oral	LD50	6,190 - 10,000 mg/kg	rat
1-Methoxy-2-propylacetate	108-65-6	dermal	LD50	>2,000 mg/kg	rat
xylene	1330-20-7	oral	LD50	5,627 mg/kg	mouse
Butan-1-ol	71-36-3	oral	LD50	2,292 mg/kg	rat
Butan-1-ol	71-36-3	dermal	LD50	3,430 mg/kg	rabbit
Solvent naphtha (petroleum), heavy arom.	64742-94-5	oral	LD50	>5,000 mg/kg	rat
Solvent naphtha (petroleum), heavy arom.	64742-94-5	inhalation: vapour	LC50	>5.28 mg/l/4h	rat
Solvent naphtha (petroleum), heavy arom.	64742-94-5	dermal	LD50	>2,000 mg/kg	rabbit
ethylbenzene	100-41-4	oral	LD50	3,500 mg/kg	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Contains 2-butanone oxime, Cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

• Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

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SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 2 (obviously hazardous to water)

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
acetone	67-64-1	LC50	8,120 mg/l	fish	96 h
butanone	78-93-3	LC50	2,993 mg/l	fish	96 h
butanone	78-93-3	ErC50	2,029 mg/l	algae	96 h
butanone	78-93-3	EC50	308 mg/l	aquatic invertebrates	48 h
Hydrocarbons, C9, aromatics	64742-95-6	ErC50	0.42 mg/l	algae	72 h
Hydrocarbons, C9, aromatics	64742-95-6	EC50	0.29 mg/l	algae	72 h
1-Methoxy-2-propylacetate	108-65-6	LC50	180 mg/l	fish	96 h
1-Methoxy-2-propylacetate	108-65-6	EC50	>500 mg/l	aquatic invertebrates	48 h
1-Methoxy-2-propylacetate	108-65-6	ErC50	>1,000 mg/l	algae	96 h
Butan-1-ol	71-36-3	LC50	1,376 mg/l	fish	96 h
Butan-1-ol	71-36-3	EC50	1,328 mg/l	aquatic invertebrates	48 h
Butan-1-ol	71-36-3	ErC50	225 mg/l	algae	96 h
Solvent naphtha (petroleum), heavy arom.	64742-94-5	LL50	5 mg/l	fish	96 h
Solvent naphtha (petroleum), heavy arom.	64742-94-5	EL50	1.4 mg/l	aquatic invertebrates	48 h
ethylbenzene	100-41-4	LC50	6.4 mg/l	fish	48 h
ethylbenzene	100-41-4	EC50	2.4 mg/l	aquatic invertebrates	48 h

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
acetone	67-64-1	EC50	61.15 g/l	microorganisms	30 min
butanone	78-93-3	LC50	1,816 mg/l	fish	24 h
butanone	78-93-3	EC50	>345 mg/l	aquatic invertebrates	24 h
butanone	78-93-3	ErC50	1,901 mg/l	algae	24 h
Hydrocarbons, C9, aromatics	64742-95-6	EC50	>99 mg/l	microorganisms	10 min
1-Methoxy-2-propylacetate	108-65-6	LC50	63.5 mg/l	fish	14 d
1-Methoxy-2-propylacetate	108-65-6	EC50	>100 mg/l	aquatic invertebrates	21 d

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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Butan-1-ol	71-36-3	EC50	18 mg/l	aquatic invertebrates	21 d
Solvent naphtha (petroleum), heavy arom.	64742-94-5	LL50	17 mg/l	fish	24 h
Solvent naphtha (petroleum), heavy arom.	64742-94-5	EL50	4.6 mg/l	aquatic invertebrates	24 h
ethylbenzene	100-41-4	LC50	7 mg/l	fish	24 h
ethylbenzene	100-41-4	EC50	2.8 mg/l	aquatic invertebrates	24 h

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
acetone	67-64-1	carbon dioxide generation	90.9 %	28 d
butanone	78-93-3	oxygen depletion	98 %	28 d
Hydrocarbons, C9, aromatics	64742-95-6	oxygen depletion	30.9 %	2 d
1-Methoxy-2-propylacetate	108-65-6	carbon dioxide generation	90 %	28 d
1-Methoxy-2-propylacetate	108-65-6	oxygen depletion	60 %	5.9 d
1-Methoxy-2-propylacetate	108-65-6	DOC removal	99 %	28 d
Butan-1-ol	71-36-3	oxygen depletion	68 %	5 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
acetone	67-64-1		-0.24	
butane	106-97-8		1.09 (pH value: 7, 20 °C)	
propane	74-98-6		1.09 (pH value: 7, 20 °C)	
butanone	78-93-3		0.3 (pH value: 7, 40 °C)	
1-Methoxy-2-propylacetate	108-65-6		1.2 (pH value: 6.8, 20 °C)	
Butan-1-ol	71-36-3		1 (pH value: 7, 25 °C)	
ethylbenzene	100-41-4	1	3.6 (pH value: 7.84, 20 °C)	
isobutane	75-28-5		1.09 (pH value: 7, 20 °C)	
2-butanone oxime	96-29-7	0.5 - 0.6	0.63	
trizinc bis(orthophosphate)	7779-90-0	28,960		

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

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Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

16 05 04* gases in pressure containers (including halons) containing hazardous substances
15 01 10* packaging containing residues of or contaminated by hazardous substances

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|------|--|--|
| 14.1 | UN number | 1950 |
| 14.2 | UN proper shipping name | AEROSOLS |
| 14.3 | Transport hazard class(es) | |
| | Class | 2 (gases) (aerosol) |
| | Subsidiary risk(s) | 2.1 (flammability) |
| 14.4 | Packing group | not assigned to a packing group |
| 14.5 | Environmental hazards | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| 14.6 | Special precautions for user | |
| | Provisions for dangerous goods (ADR) should be complied within the premises. | |
| 14.7 | Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| | The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	1950
Proper shipping name	AEROSOLS
Class	2
Classification code	5F
Danger label(s)	2.1



Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

• International Maritime Dangerous Goods Code (IMDG)

UN number	1950
Proper shipping name	AEROSOLS
Class	2.1
Danger label(s)	2.1



Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L

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EmS F-D, S-U
Stowage category -
• **International Civil Aviation Organization (ICAO-IATA/DGR)**
UN number 1950
Proper shipping name Aerosols, flammable
Class 2.1
Danger label(s) 2.1



Special provisions (SP) A145, A167
Excepted quantities (EQ) E0
Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

- Restrictions according to REACH, Annex XVII

Name acc. to inventory	CAS No	Restriction	No
flammable / pyrophoric		R40	40
flammable / pyrophoric		R40	40
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
flammable / pyrophoric		R40	40
this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3

Legend

R3 1. Shall not be used in:

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Legend

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 - 2. Articles not complying with paragraph 1 shall not be placed on the market.
 - 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
 - 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
 - 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life-threatening lung damage';
 - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
 - 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
 - 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.
- R40
- 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
 - metallic glitter intended mainly for decoration,
 - artificial snow and frost,
 - 'whoopie' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
 - 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
 - 'For professional users only'.
 - 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
 - 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

- List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list
 - none of the ingredients are listed

- Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol

extremely flammable

Labelling

keep out of reach of children pressurized container: may burst if heated keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking do not pierce or burn, even after use protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Net contents by volume

400 ml

- Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content

68.01 % 620.7 g/l

Maximum VOC content limit			
Product category	Product subcategory	Coating	VOC g/l
vehicle refinishing products	special finishes	all types	840

- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II
 - none of the ingredients are listed

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- Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)	Threshold for releases to water (kg/year)	Threshold for releases to land (kg/year)
xylene	1330-20-7	(17) (11)		200 (as BTEX)	200 (as BTEX)
ethylbenzene	100-41-4	(11)		200 (as BTEX)	200 (as BTEX)

Legend

(11) Single pollutants are to be reported if the threshold for BTEX (the sum parameter of benzene, toluene, ethyl benzene, xylenes) is exceeded
(17) Total mass of xylene (ortho-xylene, meta-xylene, para-xylene)

- Water Framework Directive (WFD)

Name of substance	CAS No	Listed in	Remarks
trizinc bis(orthophosphate)		A)	
trizinc bis(orthophosphate)		A)	
2-butanone oxime		A)	

Legend

A) Indicative list of the main pollutants

National regulations (Germany)

- Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK (water hazard class) 2 (obviously hazardous to water)

- Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances		≥ 25 wt%	0.5 kg/h	50 mg/m ³	3)

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

- Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK): 2 B (aerosol dispensers and lighters)

National inventories

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed

Legend

REACH Reg. REACH registered substances

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Trade name: PODKŁAD ANTYKOROZYJNY - 400 ml	Trade name: PROMAT CHEMICALS ROSTPRIMER 400 ml	yes
1.1		Unique formula identifier (UFI): SV60-P01C-A00D-R8CN	yes
1.3	Details of the supplier of the safety data sheet: Nordwest Handel AG Robert-Schuman-Str. 17 44263 Dortmund Germany Telephone: +49 (0)231 2222-3001 Telefax: +49 (0)231 2222-3099 Website: www.nordwest.com	Details of the supplier of the safety data sheet: NORDWEST Handel AG Robert-Schuman-Straße 17 44263 Dortmund Germany Telephone: +49 (0)231 2222-3001 Telefax: +49 (0)231 2222-3099 Website: www.nordwest.com	yes
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1	The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.	The most important adverse physicochemical, human health and environmental effects: Spillage and fire water can cause pollution of watercourses.	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Pictograms: change in the listing (table)	yes
2.2	Tactile warning of danger: yes		yes
2.2	Hazardous ingredients for labelling: Naphtha (petroleum), hydrodesulfurized heavy. Acetone. Butan-1-ol. Butanone.	Hazardous ingredients for labelling: Acetone. Butanone. Hydrocarbons, C9, aromatics. 1-Methoxy-2-propylacetate.	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes
3.2		Hazardous ingredients acc. to EU regulation: change in the listing (table)	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		• relevant DNELs of components of the mixture: change in the listing (table)	yes
8.2	Eye/face protection: Use safety goggle with side protection.	Eye/face protection: Use protective eyewear to guard against splash of liquids.	yes
9.1	• lower explosion limit (LEL): 0.6 vol% (50 g/m ³)	• lower explosion limit (LEL): 1.5 vol% (50 g/m ³)	yes
9.1	Density: 0.911 g/ml (calculated value)	Density: 0.9108 – 0.9127 g/ml (calculated value)	yes
9.1	Auto-ignition temperature: >200 °C (auto-ignition temperature (liquids and gases))	Auto-ignition temperature: 220 °C (auto-ignition temperature (liquids and gases))	yes

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

4000 354670 (GRAU/GRIJS/GRIS/SZARY) - 4000 354675 (ROTBRAUN/ROODBRUJN/ROUGEBRUN/

CZERWONO-BRĄZOWY) - ROSTPRIMER - 400 ml



Version number: GHS 2.0
Replaces version of: 2020-02-04 (GHS 1)

Date of compilation: 2020-10-12

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
11.1	Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful in contact with skin.	Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful in contact with skin or if inhaled.	yes
11.1		• Acute toxicity of components of the mixture: change in the listing (table)	yes
11.1		• Acute toxicity of components of the mixture: change in the listing (table)	yes
11.1	Serious eye damage/eye irritation: Causes serious eye damage.	Serious eye damage/eye irritation: Causes serious eye irritation.	yes
11.1	• Specific target organ toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure.	• Specific target organ toxicity - repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes
12.3		Bioaccumulative potential of components of the mixture: change in the listing (table)	yes
13.1	List of wastes: 16 05 04* gases in pressure containers (including halons) containing dangerous substances 15 01 10* packaging containing residues of or contaminated by dangerous substances	List of wastes: 16 05 04* gases in pressure containers (including halons) containing hazardous substances 15 01 10* packaging containing residues of or contaminated by hazardous substances	yes
15.1		• Restrictions according to REACH, Annex XVII: change in the listing (table)	yes
15.1	VOC content: 68.01 % 619.5 g/l	VOC content: 68.01 % 620.7 g/l	yes
15.1	• Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD): none of the ingredients are listed	• Water Framework Directive (WFD)	yes
15.1		• Water Framework Directive (WFD): change in the listing (table)	yes
15.1		• Technical instructions on air quality control (Germany): change in the listing (table)	yes
16		List of relevant phrases (code and full text as stated in chapter 2 and 3): change in the listing (table)	yes

Abbreviations and acronyms

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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2000/39/EC.	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC.
Acute Tox.	Acute toxicity.
ADN.	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR.	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
AGW.	Workplace exposure limit.
Aquatic Acute.	Hazardous to the aquatic environment - acute hazard.
Aquatic Chronic.	Hazardous to the aquatic environment - chronic hazard.
Asp. Tox.	Aspiration hazard.
ATE.	Acute Toxicity Estimate.
BCF.	Bioconcentration factor.
BOD.	Biochemical Oxygen Demand.
Carc.	Carcinogenicity.
CAS.	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
Ceiling-C.	Ceiling value.
CLP.	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR.	Carcinogenic, Mutagenic or toxic for Reproduction.
COD.	Chemical oxygen demand.
DFG.	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim.
DGR.	Dangerous Goods Regulations (see IATA/DGR).
DMEL.	Derived Minimal Effect Level.
DNEL.	Derived No-Effect Level.
EC50.	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval.
EC No.	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
EINECS.	European Inventory of Existing Commercial Chemical Substances.
EL50.	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms.
ELINCS.	European List of Notified Chemical Substances.
Ems.	Emergency Schedule.
ErC50.	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control.
Eye Dam.	Seriously damaging to the eye.
Eye Irrit.	Irritant to the eye.
Flam. Gas.	Flammable gas.
Flam. Liq.	Flammable liquid.
GHS.	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
IATA.	International Air Transport Association.
IATA/DGR.	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO.	International Civil Aviation Organization.
IMDG.	International Maritime Dangerous Goods Code.
IOELV.	Indicative occupational exposure limit value.
LC50.	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval.
LD50.	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval.
LGK.	Lagerklasse (storage class according to TRGS 510, Germany).
LL50.	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality.
Log KOW.	n-Octanol/water.
MARPOL.	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant").
NLP.	No-Longer Polymer.
PBT.	Persistent, Bioaccumulative and Toxic.
PNEC.	Predicted No-Effect Concentration.
Ppm.	Parts per million.
Press. Gas.	Gas under pressure.
RCP.	Reciprocal calculation procedure.
REACH.	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID.	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
Skin Corr.	Corrosive to skin.
Skin Irrit.	Irritant to skin.
Skin Sens.	Skin sensitisation.
STEL.	Short-term exposure limit.
STOT RE.	Specific target organ toxicity - repeated exposure.
STOT SE.	Specific target organ toxicity - single exposure.
SVHC.	Substance of Very High Concern.
TRGS.	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).
TRGS 900.	Arbeitsplatzgrenzwerte (TRGS 900).
TRGS 903.	Biologische Grenzwerte (TRGS 903).
TWA.	Time-weighted average.
VOC.	Volatile Organic Compounds.
VPvB.	Very Persistent and very Bioaccumulative.

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

H220.	Extremely flammable gas.
H222.	Extremely flammable aerosol.
H225.	Highly flammable liquid and vapour.
H226.	Flammable liquid and vapour.
H229.	Pressurised container: May burst if heated.
H280.	Contains gas under pressure; may explode if heated.
H302.	Harmful if swallowed.
H304.	May be fatal if swallowed and enters airways.
H312.	Harmful in contact with skin.
H315.	Causes skin irritation.
H317.	May cause an allergic skin reaction.
H318.	Causes serious eye damage.
H319.	Causes serious eye irritation.
H332.	Harmful if inhaled.
H335.	May cause respiratory irritation.
H336.	May cause drowsiness or dizziness.
H351.	Suspected of causing cancer.
H373.	May cause damage to organs through prolonged or repeated exposure.
H400.	Very toxic to aquatic life.
H410.	Very toxic to aquatic life with long lasting effects.
H411.	Toxic to aquatic life with long lasting effects.

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H412. Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.