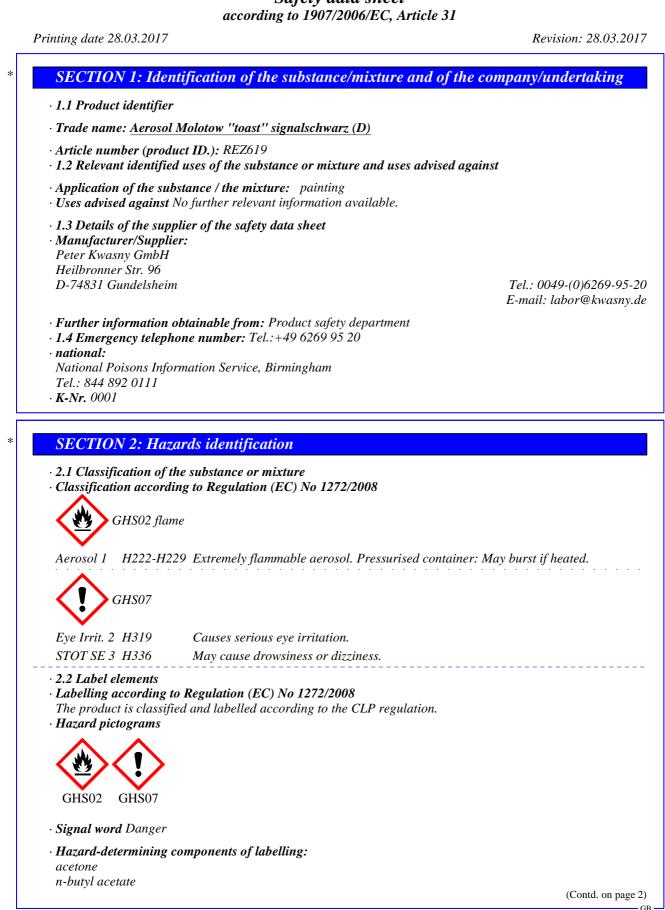


Page 1/10

Safety data sheet



GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 28.03.2017

Revision: 28.03.2017

Trade name: Aerosol Molotow ''toast'' signalschwarz (D)

	(Contd. of page 1)
• Hazard stateme	ents and the second
H222-H229 Ext	remely flammable aerosol. Pressurised container: May burst if heated.
H319 Cat	uses serious eye irritation.
Н336 Ма	y cause drowsiness or dizziness.
· Precautionary s	statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
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.
P261	Avoid breathing vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
<i>P305+P351+P</i> .	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
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 info	rmation: Without adequate ventilation, explosive atmosphere/gas mix may be created.
· 2.3 Other hazar	rds
· Results of PBT	and vPvB assessment
· PBT: Not appli	cable.
• vPvB: Not appl	

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	acetone	25-<50%
EINECS: 200-662-2	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	5
Reg.nr.: 01-2119471330-49-xxxx	• • • • • • • • • • • • • • • • • • • •	
CAS: 115-10-6	dimethyl ether	5-<10%
EINECS: 204-065-8	🛞 Flam. Gas 1, H220; 🔗 Press. Gas C, H280	
Reg.nr.: 01-2119472128-37-xxxx		
CAS: 74-98-6	propane	5-<10%
EINECS: 200-827-9	🚸 Flam. Gas 1, H220; 🔗 Press. Gas C, H280	
Reg.nr.: 01-2119486944-21-xxxx		
CAS: 123-86-4	n-butyl acetate	5-<10%
EINECS: 204-658-1	🚸 Flam. Liq. 3, H226; 🕔 STOT SE 3, H336	
Reg.nr.: 01-2119485493-29-xxxx		
CAS: 106-97-8	butane (containing $\leq 0,1$ % butadiene (203-450-8))	5-<10%
EINECS: 203-448-7	🛞 Flam. Gas 1, H220; 🔗 Press. Gas C, H280	
Reg.nr.: 01-2119474691-32-xxxx		
CAS: 9004-70-0	nitrocellulose with water(not less than 25% water, by mass)	5-<10%
	🔗 Unst. Expl., H200	
	(Con	td. on page 3)

Printing date 28.03.2017

Revision: 28.03.2017

Trade name: Aerosol Molotow ''toast'' signalschwarz (D)

CAS: 108-65-6	2-methoxy-1-methylethyl acetate	ontd. of pag 5-<10
EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-xxxx	🚸 Flam. Liq. 3, H226	
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene	2.5-<5
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane (containing ≤ 0,1 % butadiene (203-450-8)) Flam. Gas 1, H220; Press. Gas C, H280	2.5-<5
CAS: 64-17-5 EINECS: 200-578-6	ethanol 🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319	2.5-<5
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332	1-<2.5
CAS: 7397-62-8 EINECS: 230-991-7	butyl glycollate 🚯 Repr. 2, H361; 🚱 Eye Dam. 1, H318	<1%

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor 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. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 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. Cool container whit water

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.
- · 5.3 Advice for firefighters
- Protective equipment: Mouth 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 product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

(Contd. on page 4)

GB

Printing date 28.03.2017

Revision: 28.03.2017

Trade name: Aerosol Molotow ''toast'' signalschwarz (D)

(Contd. of page 3)

• 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

Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace.

Take note of emission threshold.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

 \cdot 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

· Ingred	· Ingredients with limit values that require monitoring at the workplace:	
67-64-	1 acetone	
WEL S	Short-term value: 3620 mg/m³, 1500 ppm	
1	Long-term value: 1210 mg/m³, 500 ppm	
115-10	0-6 dimethyl ether	
WEL S	Short-term value: 958 mg/m³, 500 ppm	
1	Long-term value: 766 mg/m³, 400 ppm	
123-86	5-4 n-butyl acetate	
WEL S	Short-term value: 966 mg/m³, 200 ppm	
1	Long-term value: 724 mg/m³, 150 ppm	
106-97	7-8 butane (containing $\leq 0,1$ % butadiene (203-450-8))	
WEL S	Short-term value: 1810 mg/m³, 750 ppm	
1	Long-term value: 1450 mg/m³, 600 ppm	
(Carc (if more than 0.1% of buta-1.3-diene)	
108-65	5-6 2-methoxy-1-methylethyl acetate	
WEL S	Short-term value: 548 mg/m³, 100 ppm	
1	Long-term value: 274 mg/m³, 50 ppm	
2	Sk	
	(Contd. on page 5)	
	GB	

Printing date 28.03.2017

Revision: 28.03.2017

1330-20-7		
1330-20-7		(Contd. of page
	ort-term value: 441 mg/m³, 100 ppm	
	ng-term value: 220 mg/m³, 50 ppm	
	BMGV	
64-17-5 et	ethanol	
WEL Lon	ng-term value: 1920 mg/m³, 1000 ppm	
100-41-4	ethylbenzene	
WEL Sho	ort-term value: 552 mg/m ³ , 125 ppm	
	ng-term value: 441 mg/m ³ , 100 ppm	
Sk		
· Ingredien	nts with biological limit values:	
1330-20-7	7 xylene	
	550 mmol/mol creatinine	
М	Aedium: urine	
Sc	Sampling time: post shift	
Pa	Parameter: methyl hippuric acid	
· Additiona	al information: The lists valid during the making were used as basis.	
Wash han Do not inf Avoid con Avoid con • Respirator When wor respirator • Protection The glove Selection degradatio • Material o Gloves mu	of gloves Nitrile rubber, NBR ion time of glove material sust be changed after every contamination. t break trough time has to be found out by the manufacturer of the prote	nask with outer air supp ce/ the preparation. ates of diffusion and a
· For the p suitable:	permanent contact of a maximum of 15 minutes gloves made of the ber, 0,7mm	following materials a

(Contd. on page 6)

Printing date 28.03.2017

Revision: 28.03.2017

Trade name: Aerosol Molotow ''toast'' signalschwarz (D)

(Contd. of page 5)

9.1 Information on basic physical and c	hemical properties
General Information	• •
Appearance:	
Form:	Aerosol
Colour: Odour:	According to product specification Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	<i>::</i> -44.5 °C
Flash point:	<0 °C
	Without propellant gas.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	235 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	In use, may form flammable/explosive vapour-air mixture.
Explosion limits:	
Lower:	2.6 Vol %
Upper:	13.0 Vol %
Vapour pressure at 20 °C:	233 hPa
Density:	Not determined.
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:	N7 . 1 . • 1
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	05.0.07
Organic solvents:	85.0 %
VOC (EU)	<i>With propellant gas. Content given by weight.</i> 84.96 %
Solids content:	15.0 %
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: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.

⁽Contd. on page 7)

Printing date 28.03.2017

Revision: 28.03.2017

Trade name: Aerosol Molotow ''toast'' signalschwarz (D)

(Contd. of page 6)

- 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: Possible in traces.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- \cdot 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: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- · 12.5 Results of PBT and vPvB assessment
- · *PBT*: Not applicable.
- **vPvB:** Ikke relevant.
- · 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.

· European waste catalogue

15 01 10* packaging containing residues of or contaminated by hazardous substances

- Uncleaned packaging:
- *Recommendation:* Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA

UN1950

(Contd. on page 8)

Printing date 28.03.2017

Revision: 28.03.2017

14.2 UN proper shipping name ADR 1950 AEROSOLS ADR AEROSOLS IATA AEROSOLS, flammable 14.3 Transport hazard class(es) ADR Image: Additional class (es) ADR Image: Additional class (es) 2 ADR 2 Image: Additional class (es) 2.1 Image: Additional class 2.1 Image: Additional classified 2.1 Image: Additional classified 2.1 Image: Additional classified 2.1 Image: Additional classified 2.1 Image: Code Image: Subject Image: Code Image: Subject Image: Code SW2 For AEROSOLS with a capacity of 1 li Category A. For AEROSOLS with a capacity of 1 li Category A. For AEROSOLS with a capacity of 1 li Category A. For AEROSOLS with a capacity of 1 li 		
ADR 1950 AEROSOLS IMDG AEROSOLS IATA AEROSOLS IATA AEROSOLS JADR Impose Impose 2 Class 2 Label 2.1 IMDG, IATA 2.1 IMDG, IATA 2.1 IABR 2.1 Iabel 2.1 IAAP Racking group 2.1 ADR, IMDG, IATA Void mot classified 14.5 Environmental hazards: Marine pollutant: No 14.6 Special precautions for user		(Contd. of page
IMDG IATA AEROSOLS AEROSOLS, flammable 14.3 Transport hazard class(es) AEROSOLS, flammable ADR Image: Class clas cla		1050 4 50 0501 5
IATA AEROSOLS, flammable 14.3 Transport hazard class(es) ADR Image: Class 2 5F Gases. Label 2.1 IMDG, IATA Image: Class Image: Class 2.1 IMDG, IATA Image: Class Image: Class 2.1 Label 2.1 Lob Special precautions for user Warning: Gases.		
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Class 2 5F Gases. Label 2.1 MDG, IATA Class 2.1 MDG, IATA Class 2.1 Label 2.1 14.4 Packing group ADR, IMDG, IATA Void not classified 14.5 Environmental hazards: Marine pollutant: No 14.6 Special precautions for user Danger code (Kemler): - not classified EMS Number: F-D,S-U Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 li Category B. For WASTE AEROSOLS: category C, C of living quarters. Segregation Code SG0 For AEROSOLS with a maximum capacity of 1 li Category B. For WASTE AEROSOLS: category C, C of living quarters. Segregation Code SG0 For AEROSOLS with a maximum capacity of 1 li Category B. For WASTE AEROSOLS: category C, C of living quarters. Segregation as for class 9. Stow "separated from" cla except for division 1.4. For AEROSOLS with a capacity of 1 li Stowage Code SG0 For AEROSOLS with a maximum capacity of 1 li Category B. For WASTE AEROSOLS with a capacity of 1 li Segregation as for class 9. Stow "separated from" cla except for division 1.4. For AEROSOLS with a capacity of 1 li Segregation as for class 2. For WASTE AEROSO Segregation as for the appropriate subdivision of class 2. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. Transport/Additional information: ADR Limited quantities (LQ) IL Excepted quantities (LQ) IL Excepted quantities (LQ) IL	· 14.3 Transport hazard class(es)	
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Not permitted as Excepted Quantity		
	· Excepted quantities (EQ)	
Transport category 2	· Transport category	
Tunnel restriction code D		

Printing date 28.03.2017

Revision: 28.03.2017

(Contd. of page 8)

Trade name: Aerosol Molotow ''toast'' signalschwarz (D)

· IMDG

· Limited quantities (LQ) · Excepted quantities (EQ)

Code: E0 Not permitted as Excepted Quantity

· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

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

1L

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- \cdot 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:

· Technical instructions (air):

Class	Share in %	
NK	50-100	

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H200 Unstable explosives. H220 Extremely flammable gas. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. · Department issuing SDS: Product safety department · Contact: Hr. Hamberger

 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

(Contd. on page 10)

[·] Directive 2012/18/EU

GB

Printing date 28.03.2017

Revision: 28.03.2017

Trade name: Aerosol Molotow ''toast'' signalschwarz (D)

	(Contd. of page 9)
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Unst. Expl.: Explosives – Unstable explosive	
Flam. Gas 1: Flammable gases – Category 1	
Aerosol 1: Aerosols – Category 1	
Press. Gas C: Gases under pressure – Compressed gas	
Flam. Liq. 2: Flammable liquids – Category 2	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
<i>Repr. 2: Reproductive toxicity – Category 2</i>	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
* Data compared to the previous version altered.	
	GB