

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

	Revision: 14.10.2
SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1 Product identifier Trade name Benzoyl peroxide, wet with 25% water	
Stock number: L13174 1.2 Relevant identified uses of the substance or mixture and uses advised against.	
Identified use: SU24 Scientific research and development	
1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar GmbH & Co.KG A Johnson Matthey Company	
Zeppelinstr. 7b 76185 Karlsruhe / Germany	
Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com	
www.alfa.com	
Informing department: Product safety Tel + +049 (0) 7275 988687-0 1.4 Emergency telephone number:	
1.4 Emergency telephone number: Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number) Poison Information Center Mainz	
www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240	
SECTION 2: Hazards identification 2.1 Classification of the substance or mixture	
Classification according to Regulation (EC) No 1272/2008	
GHS02 flame	
Org. Perox. CD H242 Heating may cause a fire.	
GHS07	
×	
Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.	
Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi; Irritant	
R36: Irritating to eyes.	
Xi; Sensitising	
R43: May cause sensitisation by skin contact.	
E; Explosive	
R1: Explosive when dry.	
R7: May cause fire.	
Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the Other decorded the decord result of the calculation procedure of the second decord decord decord decord decord	ne latest valid version.
Other hazards that do not result in classification No information known.	
Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. Hazard pictograms	
$\wedge \wedge$	
GHS02 GHS07	
Singer Singer	
Hazard-determining components of labelling:	
Benzoyl peroxide Hazard statements	
H242 Heating may cause a fire. H319 Causes serious eye irritation.	
H317 May cause an allérgic skin reaction. Precautionary statements	
P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P220 Keep/Store away from clothing/combustible materials. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Cor	
P410 Protect from sunlight.	ntinue rinsing.
P411+P235 Store at temperatures not exceeding 30°C. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
2.3 Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
SECTION 3: Composition/information on ingredients	
3.2 Mixtures	
Dangerous components: CAS: 94-36-0 Benzoyl peroxide Xi R36; Xi R43; E R3; O R7	75,
EINECS: 202-327-6 Index number: 617-008-00-0	
Additional information None known.	
Non-Hazardous Ingredients CAS: 7732-18-5 Water	25,
EINECS: 231-791-2	

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(Contd. of page 1)			
 SECTION 4: First aid measures 4.1 Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. After skin contact Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult doctor. After swallowing Seek medical treatment. 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, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. For safety reasons unsuitable extinguishing agents Halocarbon extinguisher 5.2 Special hazards arising from the substance or mixture This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide 5.3 Advice for firefighters Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.				
 SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation 6.2 Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. 6.3 Methods and material for containment and cleaning up: Collect mechanically. Prevention of secondary hazards: Acts as an oxidizing agent on organic materials such as wood, paper and fats Keep away from combustible material. 6.4 Reference to other sections See Section 7 for information on personal protection equipment. See Section 13 for information on disposal.				
SECTION 7: Handling and storage 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Information about protection against explosions and fires: Substance/product can reduce the ignition temperature of flammable substances. This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. 7.2 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and containers: No special requirements. Information about storage in one common storage facility: Store away from flammable substances. Store away from reducing agents. Do not store with organic materials. Store away from metal powders. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 7.3 Specific end use(s) No further relevant information available.				
SECTION 8: Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. 8.1 Control parameters				
8.1 Control parameters Components with critical values that require monitoring at the workplace:				
94-36-0 Benzoyl peroxide (75,0%) AGW (Germany) Long-term value: 5 E mg/m³ 1(1);DFG PEL (USA) Long-term value: 5 mg/m³ REL (USA) Long-term value: 5 mg/m³ TLV (USA) Long-term value: 5 mg/m³ Additional information: No data 8.2 Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Breathing equipment: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.	etermine if air-			
Protection of hands: Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to ma Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) Not determined				

Trade name Benzoyl peroxide, wet with 25% water

Eye protection: Safety glasses Face protection Body protection: Protective work clothing. (Contd. of page 2)

SECTION 9	Physical and	d chemical	nronerti

SECTION 9: Physical and chemical properties				
9.1 Information on basic physical and General Information Appearance: Form:	I chemical properties			
Colour:	White			
Smell:	Not determined			
Odour threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition	Not determine d			
Melting point/Melting range:	Not determined			
Boiling point/Boiling range:	Not determined			
Sublimation temperature / start:	Not determined			
Inflammability (solid, gaseous)	May cause fire. Contact with combustible material may cause fire.			
Ignition tomporature	Not determined			
Ignition temperature:	Not determined			
Decomposition temperature: Self-inflammability:				
Sen-inflammability:	Product is not selfigniting.			
Danger of explosion:	Explosive when dry.			
Critical values for explosion:				
Lower:	Not determined			
Upper:	Not determined			
Steam pressure at 20 °C:	1 hPa			
Density	Not determined			
Relative density	Not determined.			
Vapour density	Not applicable.			
Evaporation rate	Not applicable.			
Solubility in / Miscibility with				
Water:	Insoluble			
Partition coefficient (n-octanol/water)	: Not determined.			
Viscosity:				
dynamic:	Not applicable.			
kinematic:	Not applicable.			
Solvent content:				
Organic solvents:	0.0 %			
<u> </u>				
Solids content:	75,0 %			
9.2 Other information	No further relevant information available.			
SECTION 10: Stability and reactive	vity			
10.1 Reactivity				
Explosive when dry.				
May cause fire.				

An cause fire. May cause fire. May intensify fire; oxidiser. **10.2 Chemical stability** Stable under recommended storage conditions. **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications. **10.3 Possibility of hazardous reactions** Reacts with reducing agents Reacts with flammable substances **10.4 Conditions to avoid** No further relevant information available 10.4 Conditions to avoid No further relevant information available. 10.5 Incompatible materials: Flammable substances Reducing agents Organic materials Metal powders 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide **SECTION 11: Toxicological information**

11.1 Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: Causes serious eye irritation. Sensitization: May cause an allergic skin reaction. Correction: May cause an allergic to fraction of Chemical Substances (RTECS) contains mutation data for components in this product.

Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for components in this product.

Carcinogenicity: IARC-3: Not classifiable as to carcinogenicity to humans. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for components in this product. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.

Aspiration nazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity: No further relevant information available. 12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.
 12.4 Mobility in soil No further relevant information available.
 Additional ecological information:

General notes:

Do not allow material to be released to the environment without proper governmental permits.

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Trade name Benzoyl peroxide, wet with 25% water					
	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. 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 Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
	SECTION 14: Transport information				
	UN-Number				
	ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG, IATA	UN3104 3104 ORGANIC PEROXIDE TYPE C, SOLID ORGANIC PEROXIDE TYPE C, SOLID			
	ADR Class Label	5.2 (P1) Organic peroxides. 5.2			
	IMDG, IATA	5.2 Organic peroxides. 5.2			
	Packing group ADR, IMDG, IATA	Not applicable			
	14.5 Environmental hazards: Marine pollutant:	No			
	14.6 Special precautions for user Kemler Number:	Warning: Organic peroxides.			
	EMS Number:	- F-J,S-R			
	14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.			
	Transport/Additional information: ADR				
	Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code	E0 100 g 1 D			
	UN "Model Regulation":	UN3104, ORGANIC PEROXIDE TYPE C, SOLID, 5.2			
	SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical Substances All ingredients are listed.				
	Standard for the Uniform Scheduling of Medicines and Poisons 94-36-0 Benzoyl peroxide Stational regulations S2, S4, S5 Information about limitation of use: Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals. S2				
	Classification according to VbF: Not applicable Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical Substances)				
	None of the ingredients is listed. Substance of Very High Concern (SVHC) according to the REACH Regula	ntions (FC) No. 1907/2006			
	None of the ingredients are listed.				
	The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. None of the ingredients is listed.				
	Annex XIV of the REACH Regulations (requiring Authorisation for use)				
	None of the ingredients is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not b	been carried out.			
	SECTION 16: Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the produc not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Relevant phrases				
	H241 Heating may cause a fire or explosion. H317 May cause an allergic skin reaction.	(1	Contd. on page 5)		

(Contd. of page 4)

Trade name **Benzoyl peroxide, wet with 25% water**

H319 Causes serious eye irritation.

- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
 R36 Irritating to eyes.
 R43 May cause sensitisation by skin contact.
 R7 May cause fire.

R43 May cause sensitisation by skin contact.
R7 May cause fire.
Department issuing SDS: Global Marketing Department
Abbreviations and acronyms:
RID: Reglement international cordinant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDC: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
Globally Harmonized System of Classification and Labelling of Chemicals
EUNECS: European List of Notified Chemical Substances
EUNECS: European List of Notified Chemical Substances
ELINCS: European List of Notified Chemical Society)
VF: Verordnung über brenhtare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)
LGS0: Leithal concentration, 50 percent
LGS0: Leithal concerve G Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
NTP: National Toxicology Program (USA)
Org. Perox. B: Organic Peroxides, Type B
Org. Perox. B: Organic Peroxides, Type B, O
Org. Perox. B: Organic Peroxides, Type B, O
Org. Perox. B: Organic Peroxides, Types C, D</

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