Report Date : 16/02/2015 Revision Date 16/02/2015

Revision 12

Supersedes date 28/04/2014 v11

1 / 9 SDS No. 17090



SAFETY DATA SHEET TUBE HARDENER - FOR USE IN FILLER KITS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name TUBE HARDENER - FOR USE IN FILLER KITS

Product No. CCF010(B), CCB010(B), CCB020(B), CCF020(B), EXH001, CCB035(B),

FXH001(B), MAC080(B), MAC555(B), MAC556(B), MAC557(B), MAC558(B), SLF016(B), TKK001(B), TKK002(B), TKK035(B), TKK250(B), TKK600(B), TSF016(B), TSF017(B), TSF105(B), USB025(B), USB600(B), USF025(B), USF600(B), WFN012(B), WFN402(B), WFW012(B), WFW402(B), RFC003(B),

TSF015(B)

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

Identified uses Hardener. Catalyst.

1.3. Details of the supplier of the safety data sheet

Supplier TETROSYL LIMITED

BEVIS GREEN WORKS

WALMERSLEY

BURY BL9 6RE 0161 764 5981 0161 797 5899 info@tetrosyl.com

Manufacturer TETROSYL LIMITED

BEVIS GREEN WORKS

WALMERSLEY

BURY BL9 6RE 0161 764 5981 0161 797 5899 info@tetrosyl.com

1.4. Emergency telephone number

0161 764 5981

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Org. Perox. C - H242

Hazards

Human health Eye Irrit. 2 - H319; Skin Sens. 1 - H317

Environment Aquatic Acute 1 - H400

Classification (1999/45/EEC) Xi;R36. R43. O;R7. N;R50.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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2.2. Label elements

Contains **BENZOYL PEROXIDE**

Label In Accordance With (EC) No. 1272/2008



	•	•		
Signal Word Hazard Statements	Danger			
	H242	Heating may cause a fire.		
	H317	May cause an allergic skin reaction.		
	H319	Causes serious eye irritation.		
	H400	Very toxic to aquatic life.		
Precautionary Statements		, i		
·	P101	If medical advice is needed, have product container or label at hand.		
	P102	Keep out of reach of children.		
	P273	Avoid release to the environment.		
	P280	Wear protective gloves/protective clothing/eye protection/face protection.		
	P235	Keep cool.		
	P302+352	IF ON SKIN: Wash with plenty of soap and water.		
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes.		
		Remove contact lenses, if present and easy to do. Continue		
		rinsing.		
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.		
	P337+313	If eye irritation persists: Get medical advice/attention.		
	P411	Store at temperatures not exceeding 25°C / 77°F.		
	P501	Dispose of contents/container in accordance with local regulations.		
Supplementary Precaution	ary Statements			
	P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.		
	P220	Keep away from combustible materials.		
	P234	Keep only in original container.		
	P272	Contaminated work clothing should not be allowed out of the workplace.		
	P261	Avoid breathing vapour/spray.		
	P264	Wash contaminated skin thoroughly after handling.		
	P321	Specific treatment (see medical advice on this label).		
	P313	Get medical advice/attention.		
	P337	If eye irritation persists:		
	P363	Wash contaminated clothing before reuse.		
	P391	Collect spillage.		
	P410	Protect from sunlight.		
	P420	Store away from other materials.		

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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3.2. Mixtures

BENZOYL PEROXIDE 50.0 - <75.0%

CAS-No.: 94-36-0 EC No.: 202-327-6

Classification (EC 1272/2008) Classification (67/548/EEC)

Org. Perox. B - H241 Xi;R36.

Eye Irrit. 2 - H319 O;R7.

Skin Sens. 1 - H317 N;R50.

Aquatic Acute 1 - H400 E;R3.

R43.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Move the exposed person to fresh air at once. Get medical attention.

Inhalation

In case of inhalation of spray mist: Move person into fresh air and keep at rest. Get medical attention. Place unconscious person on the side in the recovery position and ensure breathing can take place.

Ingestion

DO NOT induce vomiting. Get medical attention immediately.

Skin contact

Wash the skin immediately with soap and water. Contact physician if irritation continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

General information

NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin contact

No specific symptoms noted.

Eye contact

No specific symptoms noted.

4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

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Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

Carbon dioxide (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Water spray should be used to cool containers. Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours and aerosol spray. Provide adequate ventilation. In case of spills, beware of slippery floors and surfaces. Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition.

6.2. Environmental precautions

Do not allow ANY environmental contamination. Do not discharge into drains, water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Collect with absorbent, non-combustible material into suitable containers.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid forming spray/aerosol mists. Provide good ventilation. Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep upright. Store away from: Reducing Agents. Acids. Alkalis. Protect from freezing and direct sunlight. Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
BENZOYL PEROXIDE	WEL		5 mg/m3			

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WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment







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Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Must not be handled in confined space without sufficient ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Neoprene, nitrile, polyethylene or PVC.

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Other Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact. Provide eyewash station.

Hygiene measures

Wash contaminated clothing before reuse. Wash promptly with soap & water if skin becomes contaminated.

Wash hands after contact. When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Paste Colour Varying. Odour Characteristic. Insoluble in water Solubility

Initial boiling point and boiling range (°C)

Not determined. Melting point (°C) Not determined.

Vapour density (air=1)

Not determined. Vapour pressure Not determined. Evaporation rate

Not determined.

pH-Value, Conc. Solution

Not determined.

Decomposition temperature (°C)

Not determined.

Odour Threshold, Lower

Not determined.

Odour Threshold, Upper

Not determined.

Flash point (°C)

Not determined.

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Auto Ignition Temperature (°C)

Not determined.

Flammability Limit - Lower(%)

Not determined.

Flammability Limit - Upper(%)

Not determined.

Partition Coefficient

(N-Octanol/Water)

Not determined.

Oxidising properties

Not available.

9.2. Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Polymerisation Description

Avoid alkalis, strong acids and heat.

10.4. Conditions to avoid

Avoid contact with oxidisers or reducing agents. Avoid contact with acids and alkalis. Reacts with alkalis and amines generating excessive heat.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Amines. Acids, oxidising. Alkali metals. Alkali earth metals.

10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO2) are formed. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. The product contains volatile, organic compounds which have a photochemical ozone creation potential.

12.1. Toxicity

Acute Toxicity - Fish

LC50 96 hours 0.0602 mg/l Onchorhynchus mykiss (Rainbow trout)

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Acute Toxicity - Aquatic Invertebrates

Not available.

12.2. Persistence and degradability

Degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

12.4. Mobility in soil

Adsorption/Desorption Coefficient

Not available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

Confirm disposal procedures with environmental engineer and local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 3108 UN No. (IMDG) 3108 UN No. (ICAO) 3108

14.2. UN proper shipping name

ORGANIC PEROXIDE TYPE E, SOLID (BENZOYL PEROXIDE) **Proper Shipping Name**

14.3. Transport hazard class(es)

ADR/RID/ADN Class 5.2

ADR/RID/ADN Class Class 5.2: Organic peroxides.

ADR Label No. 5.2 **IMDG Class** 5.2 ICAO Class/Division 5.2

Transport Labels

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14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

EMS F-J, S-R

Emergency Action Code 1W
Tunnel Restriction Code (D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

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Risk Phrases In Full

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R36 Irritating to eyes. R7 May cause fire.

R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

Hazard Statements In Full

H319 Causes serious eye irritation.

H241 Heating may cause a fire or explosion.

H242 Heating may cause a fire.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.