SAFETY DATA SHEET

A.W.F. CHEMI - TECT CR ACTIVATOR

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	A.W.F. Chemi -Tect Activator
Supplier	A.W.F. SMS Ltd
Address	Unit l D Brymau 3 Estate River Lane Saltney Chester, CH4 8RQ
Phone Number	01244 - 677833
Fax Number	01244 - 677844

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation

BENZYL ALCOHOL

CAS number	% by weight	EC number	Classification
000100-51-6	40 - 50%	202-859-9	Xn; R20/22

BENZENE-1,3-DIMETHANAMINE

CAS number	% by weight	EC number	Classification
001477-55-0	5 - 10%	216-032-5	Xn; R20/22, C; R35

METHYLENEDI(CYCLOHEXYLAMINE)

CAS number	% by weight	EC number	Classification
001761-71-3	1 - 5%	217-168-8	Xn; R22, C; R35, Xi; R37, R43

See section 16 for the full text of the R-phrases declared above
Occupational exposure limits, if available, are listed in section 8.

3. HAZARDS IDENTIFICATION

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.
Classification Xn; R20/22, C; R35, R43
Human health hazards Harmful by inhalation and if swallowed. Causes severe burns. May cause sensitisation by skin contact.
See section 11 for more detailed information on health effects and symptoms.

4. FIRST AID MEASURES

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

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Skin contact Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO2. Do not use water jet.

Special exposure hazards No specific hazard.

Hazardous thermal decomposition products

In a fire, the following may be released: carbon oxides (CO, CO2) nitrogen oxides (NO, NO2 etc.)

Protection of fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Immediately contact emergency personnel. Use suitable protective equipment (section 8).

Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up

If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

7. HANDLING AND STORAGE

Handling Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

Storage Keep container tightly closed. Store in original sealed containers at temperatures between 5° and 30°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure controls

Spray - Adequate ventilation should be provided if there is risk of aerosol formation.

Respiratory protection

A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with organic vapour cartridge. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 4-8 hours (breakthrough time): butyl rubber , neoprene , nitrile rubber or PVC gloves.

Eye protection

Safety glasses. Chemical splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin protection

Protective clothing. Repeated skin exposure can produce local skin destruction or dermatitis.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid. (Amber.)	Odour Ammoniacal.
pH Alkaline.	Boiling point >110°C (230°F)
Flash point Closed cup: >105°C (221°F).	Flammability Non-flammable.
Explosion limits Not available.	Oxidising properties Not available
Vapour pressure Not available.	Relative density 1.08 g/cm ^{3}
Solubility Insoluble in cold water.	Vapour density Not available.
Evaporation rate (butyl acetate = 1)	Octanol/water partition coefficient Not available
Auto-ignition temperature >400°C (752°F)	Melting point -15°C (5°F)

10. STABILITY AND REACTIVITY

Stability The product is stable.

Conditions to avoid None identified.

Materials to avoid

This product should be stored away from oxidising materials and strong bases. acids Amines peroxides These could cause the product to polymerise exothermically. Unintentional contact with them should be avoided.

Hazardous decomposition products

In a fire, the following may be released: carbon oxides (CO, CO2) nitrogen oxides (NO, NO2 etc.)

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation Harmful by inhalation. Severely corrosive to the respiratory system.

Ingestion Harmful if swallowed. May cause burns to mouth, throat and stomach.

Skin contact Severely corrosive to the skin. May cause sensitisation by skin contact.

Eye contact Severely corrosive to the eyes.

Acute toxicity

Ingredient name	Test	Result	Route	Species
BENZYL ALCOHOL	LD50	1230 mg/kg	Oral	Rat
BENZENE-1,3-DIMETHANAMINE	LD50	1040 mg/kg	Oral	Rat
	LC50	2400 mg/l (4 hours)	Inhalation	Rat

Potential chronic health effects

Carcinogenicity No carcinogenic effect.

Mutagenicity No mutagenic effect.

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Reproductive toxicity No known significant effects or critical hazards.
Over-exposure signs/symptoms
Inhalation No known significant effects or critical hazards.
Ingestion No known significant effects or critical hazards.
Skin Repeated skin exposure can produce local skin destruction or dermatitis.
Additional information No components of this material are listed as carcinogens by OSHA, NTP, ACGIH or IARC.

12. ECOLOGICAL INFORMATION

Ingredient name	Species	Period	Result
Benzyl alcohol	Minnows(LC50)	96 hours	460 mg/l
Methylenedi(cyclohexylamine)	Fish (LC50)	96 hours	100 mg/l
	Daphnia (EC50)	48 hours	6.84 mg/l

Persistence/degradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
AWF Chemi -Tect CR Activator	-	-	Not readily

Bioaccumulative potential This product is not expected to bioaccumulate through food chains in the environment.
Mobility Do not allow to enter drains or watercourses.
Other adverse effects No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Methods of disposal
The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Hazardous waste
The classification of the product may meet the criteria for a hazardous waste.

14. TRANSPORT INFORMATION

International transport regulations
UN number 2735
Proper shipping name Polyamines, Liquid, Corrosive, n.o.s. (Polyamine mixture)
Class 8
Packing group III
Additional information
Emergency schedules (EmS) F-A,S-B

15. REGULATORY INFORMATION

EU regulations
Hazard symbol/symbols Corrosive
Risk phrases R20/22- Harmful by inhalation and if swallowed. R35- Causes severe burns. R43- May cause sensitisation by skin contact.

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Safety phrases S24- Avoid contact with skin.S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.S28- After contact with skin, wash immediately with plenty of soap and water.S29- Do not empty into drains.S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains BENZYL ALCOHOL 202-859-9
BENZENE-1,3-DIMETHANAMINE 216-032-5
METHYLENEDI(CYCLOHEXYLAMINE) 217-168-8

Product use Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

- Consumer applications.

Other EU regulations

EU statistical classification (Tariff Code) 29212900

National regulations

United States

SARA 313 toxic chemical notification and release reporting No products were found.

Germany Hazard class for water 2

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - Europe

R20/22- Harmful by inhalation and if swallowed.R22- Harmful if swallowed.R35- Causes severe burns.R37- Irritating to respiratory system.R43- May cause sensitisation by skin contact.

Full text of classifications referred to in sections 2 and 3 - Europe

C - Corrosive

Xn - Harmful

Xi - Irritant

Further information

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC

Canada - This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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