



Tech International
200 E. Coshocton Street
P.O. Box 486
Johnstown, Ohio, U.S.A.
43031
Telephone: 001-740-967-9015

Tech Chemical Vulcanizing Fluid

Product code(s): 760 Series, 761, 762, 763, 764IP, 765IP, 766IP, 767IP, 770

SDS Preparation Date (dd/mm/yyyy): 09/10/2008

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SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name : **Tech Chemical Vulcanizing Fluid**
Product Code(s) : 760 Series, 761, 762, 763, 764IP, 765IP, 766IP, 767IP, 770
Application : Cement.
Use pattern: professional use.

Supplier's name and address:

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Telephone : 001-740-967-9015

Emergency Telephone Number : 001-703-527-3887 (Chemtrec - U.S.)

2. HAZARDS IDENTIFICATION

Liquid - amber. Solvent odour.

Most important hazards: The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Classification:

F;R11 - Highly flammable.

T - Toxic

Carc.Cat.2;R45 - May cause cancer.

Muta.Cat.2;R46 - May cause heritable genetic damage.

Xn - Harmful

R65 - Harmful: may cause lung damage if swallowed.

Xi - Irritant

R43 - May cause sensitization by skin contact.

R67 - Vapours may cause drowsiness and dizziness.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Restricted to professional users.

Other hazards which do not result in classification:

Vapours are heavier than air and may spread along floors. Burning produces obnoxious and toxic fumes. May cause irritation of respiratory tract. May cause skin and eye irritation in susceptible persons.

Environmental precautions :

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid release to the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation: Mixture - Hydrocarbons; Carbamates; Amines.

The following substances shall be indicated according to legislation:

<u>Ingredients</u>	<u>CAS #</u>	<u>EINECS No.</u>	<u>Concentration</u>	<u>Hazard classification</u>
Solvent naphtha (petroleum), light aliphatic	64742-89-8	265-192-2	> 93%	Carc.Cat.2;R45 - Muta.Cat.2;R46 - Xn;R65



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Zinc bis(dibutylthiocarbamate)	136-23-2	205-232-8	< 5%	Xi;R36/37/38 - R43 - N;R50/53
Natural rubber	Not reported	No information available.	< 10%	No information available.

For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST-AID MEASURES

- Ingestion** : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person.
- Inhalation** : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only.
- Skin contact** : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Remove/Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse.
- Eye contact** : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Additional Information** : Immediate medical attention is required.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media** : Dry chemical; Carbon dioxide (CO₂); Foam; Water.
- Unsuitable extinguishing media** : None known.
- Unusual fire and explosion hazards** : Highly flammable. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Hydrocarbons; nitrogen oxides (NO_x); Sulphur oxides; Hydrogen cyanide (hydrocyanic acid); Metal oxides.
- Protective equipment for fire-fighters** : Wear self-contained breathing apparatus and protective suit. Fight fire with normal precautions from a reasonable distance.
- Special fire-fighting procedures** : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak.
- Environmental precautions** : Do not allow material to contaminate ground water system.
- Methods for cleanup** : Ventilate the area. Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

7. HANDLING AND STORAGE



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- Handling procedures** : Avoid exposure - obtain special instructions before use. Use only in well-ventilated areas. Wear protective gloves/clothing and eye/face protection. In case of insufficient ventilation wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Keep away from heat and sources of ignition. Keep container tightly closed. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Wash thoroughly after handling.
- Storage requirements** : Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. No smoking in the area. Keep away from incompatibles.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Natural rubber	No information available.	European Union (OEL)	No information available.
Solvent naphtha (petroleum), light aliphatic	None known.	European Union (OEL)	None.
Zinc bis(dibutyldithiocarbamate)	None known.	European Union (OEL)	None.

Ingredient Comments: TWA = time weighted average; STEL = Short term exposure limit; OEL = National occupational exposure limits.

Ventilation and engineering measures

- : Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

- : In the case of vapour formation use a respirator with an approved filter. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Skin protection

- : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye / face protection

- : Chemical safety glasses with side shields or splash proof goggles.

Other protective equipment

- : Wear suitable protective equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

General hygiene considerations

- : Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Liquid - amber.
- Odour** : solvent
- pH** : No information available.
- Flash point** : - 6.7°C



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Flashpoint (Method) : No information available.
Lower flammable limit (% by vol.) : 1.1
Upper flammable limit (% by vol.) : 7.5
Auto-ignition temperature : No information available.
Oxidizing properties : None known.
Explosion data : May be sensitive to static discharge.
Boiling point : 98.3 - 110°C
Melting/Freezing point : No information available.
Specific gravity : 0.75 @ 15.5°C
Solubility : No information available.
Vapour pressure : 38 mmHg @ 20°C
Vapour density : 3.3
Coefficient of water/oil distribution : No information available.
Viscosity : No information available.
Evaporation rate (BuAe = 1) : 3.2
Volatiles (% by weight) : 93.9
Volatile organic Compounds (VOC's) : 691 g/L (5.77 lbs / gal)

10. STABILITY AND REACTIVITY

Stability and reactivity : Stable under normal conditions. Hazardous polymerisation does not occur.
Conditions to avoid : Direct sources of heat.
Materials To Avoid And Incompatibility : Oxidizing agents; Acids.
Hazardous decomposition products : Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Hydrocarbons; nitrogen oxides (NOx); Sulphur oxides; Hydrogen cyanide (hydrocyanic acid); metal oxides.

11. TOXICOLOGICAL INFORMATION

Routes of exposure : Eye contact; Skin contact; Inhalation; Ingestion.
Signs and symptoms of short-term (acute) exposure
Inhalation : Inhalation may provoke the following symptoms: Pain; Headache; Nausea; Vomiting; Dizziness; Drowsiness; other central nervous effects.
Skin : According to the classification criteria of the European Union, the product is not considered as being a skin irritant. May cause skin and eye irritation in susceptible persons.
Eyes : According to the classification criteria of the European Union, the product is not considered as being an eye irritant. May cause skin and eye irritation in susceptible persons.
Ingestion : Harmful: may cause lung damage if swallowed. Aspiration may cause pulmonary oedema and pneumonitis. Ingestion may cause irritation to mucous membranes. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
Potential Chronic Health Effects : Prolonged skin contact may defat the skin and produce dermatitis.
Carcinogenicity : May cause cancer. Contains: Solvent naphtha (petroleum), light aliphatic.
Reproductive effects : No toxicity to reproduction
Mutagenicity : May cause heritable genetic damage. Contains: Solvent naphtha (petroleum), light aliphatic.



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Teratogenicity : No known effect.
Other important hazards : Chronic exposure damages the brain and the central nervous system.
May cause sensitization by skin contact. Effects of excessive exposures may include:
Eczema injuries of an allergic nature.

12. ECOLOGICAL INFORMATION

Ecotoxicity : No data is available on the product itself. The product contains the following substances which are hazardous for the environment: Zinc bis(dibutyldithiocarbamate). Other ingredients: Solvent naphtha (petroleum), light aliphatic.
The acute toxicity of zinc bis(dibutyldithiocarbamate) is (IUCLID):
Toxicity to fish - LC50/96h/rainbow trout = 520 mg/L
Toxicity to daphnia - EC50/48h/daphnia = 0.74 mg/L
The acute toxicity of Solvent naphtha (petroleum), light aliphatic is (IUCLID):
Toxicity to algae - EC50/72h/algae = 4700 mg/L

Mobility : The product itself has not been tested.
Persistence : The product itself has not been tested.
Bioaccumulation potential : The product itself has not been tested.
Other Adverse Environmental effects : None known.



Water contaminating class (Germany) : No information available.

13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not burn, or use a cutting torch on, the empty drum.

Methods of Disposal : Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
ADR/RID	UN1133	ADHESIVES	3	II	
EU ADR/RID Classification Code	F1 - Flammable liquids having a flash-point of or below 61 °C				
EU ADR / RID Hazard Identification Number	33 - highly flammable liquid (flash-point below 23°C)				
ADR/RID Additional information	May be shipped as a Limited Quantity when transported in containers no larger than 5.0 L, in combination packagings no larger than 30 kg gross mass. May be shipped as a Limited Quantity when transported in containers no larger than 1.0 L, in shrink-wrapped or stretch-wrapped trays no larger than 20 kg gross mass.				
ICAO/IATA	UN1133	Adhesives	3	II	



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ICAO/IATA Additional information	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.				
IMDG	UN1133	ADHESIVES	3	II	
IMDG Additional information	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				

15. REGULATORY INFORMATION

Labelling:



Highly flammable



Toxic

Restricted to professional users.

Contains: Solvent naphtha (petroleum), light aliphatic; Zinc bis(dibutylidithiocarbamate).

R43 - May cause sensitization by skin contact.

R45 - May cause cancer.

R46 - May cause heritable genetic damage.

R65 - Harmful: may cause lung damage if swallowed.

R67 - Vapours may cause drowsiness and dizziness.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 7/9 - Keep container tightly closed and in a well-ventilated place.

S16 - Keep away from sources of ignition - No smoking.

S53 - Avoid exposure - obtain special instructions before use.

S36/37 - Wear suitable protective clothing and gloves.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 - This material and its container must be disposed of as hazardous waste.

National Regulations:

1. Substances presenting a health or environmental hazard within the meaning of Directive 67/548/EEC.
2. Classification according to European directive on classification of hazardous preparations 1999/45/EC.
3. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
4. In accordance with the legislation of the United Kingdom.
5. German legislation on water endangering substances VwVwS

16. OTHER INFORMATION

Information Source : 1. Material Safety Data Sheet from manufacturer.
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2008 (Chempendium, RTECs, HSDB, INCHEM).
3. European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2008.



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R-Phrases (Full Text)

: R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Refer to section 15 for additional R phrases not listed here.

Prepared for:

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HAZARDOUS MATERIALS REGULATIONS SPECIALISTS

DISCLAIMER

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