

S1301 M, PART A

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Synonyms: none
 CAS No. : N.A.
 EC index No. : N.A.
 EINECS No. : N.A.
 RTECS No. : N.A.
 NFPA code : N.D.
 Molecular weight : N.A.
 Formula : N.A.

1.2 Use of the substance or the preparation:

Epoxy resin
 Industrial use

1.3 Company/undertaking identification:

TYCO ADHESIVES
 Nieuwlandlaan B15
 B-3200 Aarschot
 Tel. : +32 477 57 28 88
 Fax : +32 16 55 36 74

1.4 Telephone number for emergency:

Europe: +32 14 58 45 45
 Brandweerinformatiecentrum voor gevaarlijke stoffen (B.I.G.)
 Technische Schoolstraat 43A, B-2440 Geel
 USA: Chemtrec 800-424 9300 or Tyco Adhesives Houston 888-676 7200

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
chalk	1317-65-3 215-279-6	25-55	-	-
phenol/formaldehyde/glycidyl ether, polymer	28064-14-4 -	25-55	Xi	36/38-43 (1)

(1) For R-phrases in full: see heading 16

3. Hazards identification

- Irritating to eyes and skin
- May cause sensitization by skin contact

4. First aid measures

4.1 Eye contact:

- Consult a doctor/medical service if irritation persists
- Rinse immediately with plenty of water

4.2 Skin contact:

- Consult a doctor/medical service if irritation persists
- Soap may be used
- Wash immediately with lots of water

4.3 After inhalation:

- Consult a doctor/medical service if breathing problems develop
- Remove the victim into fresh air
- Unconscious: maintain adequate airway and respiration

4.4 After ingestion:

- Consult a doctor/medical service if you feel unwell
- Never give water to an unconscious person

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Water spray
 - Polyvalent foam
 - BC powder
 - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- No data available
- 5.3 Special exposure hazards:**
- Combustible
 - Upon combustion CO and CO2 are formed
- 5.4 Instructions:**
- No specific firefighting instructions required
- 5.5 Special protective equipment for firefighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
 - Heat/fire exposure: gas-tight suit

6. Accidental release measures

- 6.1 Personal protection/precautions:**
See heading 8.1/8.3/10.3
- 6.2 Environmental precautions:**
- Contain released substance, pump over in suitable containers
 - Plug the leak, cut off the supply
- 6.3 Methods for cleaning up:**
- Take up liquid spill into absorbent material, e.g.: sand/earth
 - Scoop absorbed substance into closing containers
 - Clean contaminated surfaces with an excess of water
 - Wash clothing and equipment after handling

7. Handling and storage

- 7.1 Handling:**
- Observe very strict hygiene - avoid contact
 - Remove contaminated clothing immediately
 - Clean contaminated clothing
- 7.2 Storage:**
- Keep container tightly closed
 - Meet the legal requirements
 - Keep away from: heat sources, acids, bases, oxidizing agents
- | | | |
|----------------------------|--------|------|
| Storage temperature | : N.D. | °C |
| Quantity limits | : N.D. | kg |
| Storage life | : N.D. | days |
- Materials for packaging** :
- suitable :no data available
 - to avoid :no data available
- 7.3 Specific uses:**
- Polymerizing with S 1301M part B with mixing ratio 3 parts of A to 1 part of B

8. Exposure controls/Personal protection

8.1 Exposure limit values:

TLV-TWA	: not listed
TLV-STEL	: not listed
TLV-Ceiling	: not listed
OES-LTEL	: not listed
OES-STEL	: not listed
MEL-LTEL	: not listed
MEL-STEL	: not listed
MAK	: not listed
TRK	: not listed
MAC-TGG 8 h	: not listed
MAC-TGG 15 min.	: not listed
MAC-Ceiling	: not listed
VME-8 h	: not listed
VLE-15 min.	: not listed
GWBB-8 h	: not listed
GWK-15 min.	: not listed
Momentary value	: not listed
EC	: not listed
EC-STEL	: not listed

Sampling methods:

- No data available

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:

- Insufficient ventilation: wear respiratory protection

8.3.2 hand protection:

- Gloves
Suitable materials: No data available
- Breakthrough time: N.D.

8.3.3 eye protection:

- Face shield

8.3.4 skin protection:

- Protective clothing
Suitable materials: No data available

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9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C) : Liquid
Odour : N.D.
Colour : Yellow

9.2 Important health, safety and environmental information:

pH value : N.D.
Boiling point/boiling range : > 392 °C
Flashpoint : 143 °C
Explosion limits : N.D. vol% (°C)
Vapour pressure (at 20°C) : N.D. hPa
Vapour pressure (at 50°C) : N.D. hPa
Relative density (at 20°C) : 1.6
Water solubility : Insoluble
Soluble in : N.D.
Relative vapour density : > 1
Viscosity : N.D. Pa.s
Partition coefficient n-octanol/water : N.D.
Evaporation rate :
 ratio to butyl acetate : N.D.
 ratio to ether : N.D.

9.3 Other information:

Melting point/melting range : N.D. °C
Auto-ignition point : N.D. °C
Saturation concentration : N.D. g/m³

10. Stability and reactivity

10.1 Conditions to avoid/reactivity:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources, acids, bases, oxidizing agents

10.3 Hazardous decomposition products:

- Upon combustion CO and CO₂ are formed

11. Toxicological information

11.1 Acute toxicity:

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LD50 oral rat : > 2000 mg/kg
LD50 dermal rat : > 2000 mg/kg
LD50 dermal rabbit : N.D. mg/kg
LC50 inhalation rat : > 1.7 mg/l/4 h
LC50 inhalation rat : N.D. ppm/4 h

11.2 Chronic toxicity:

EC carc. cat. : not listed
EC muta. cat. : not listed
EC repr. cat. : not listed

Carcinogenicity (TLV) : not listed
Carcinogenicity (MAC) : not listed
Carcinogenicity (VME) : not listed
Carcinogenicity (GWBB) : not listed

Carcinogenicity (MAK) : not listed
Mutagenicity (MAK) : not listed
Teratogenicity (MAK) : not listed

IARC classification : not listed

11.3 Routes of exposure: ingestion, inhalation, eyes and skin

11.4 Acute effects/symptoms:

- **AFTER SKIN CONTACT**
- Tingling/irritation of the skin
- **AFTER EYE CONTACT**
- Irritation of the eye tissue

11.5 Chronic effects:

- May cause sensitization by skin contact
- Not listed in carcinogenicity class (IARC, EC, TLV, MAK)
- Not listed in mutagenicity class (EC, MAK)
- Not classified as toxic to reproduction (EC)
- **ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:**
- Skin rash/inflammation

12. Ecological information

12.1 Ecotoxicity:

- No data available

12.2 Mobility:

- Volatile organic compounds (VOC): < 0.5%
- Insoluble in water
- Substance sinks in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- | | | | |
|-----------------------------------|---|-----------|--------|
| - biodegradation BOD ₅ | : | N.D. | % ThOD |
| - water | : | N.D. | |
| - soil | : | T ½: N.D. | days |

12.4 Bioaccumulative potential:

- log P_{ow} : N.D.
- BCF : N.D.

12.5 Other adverse effects:

- WGK : N.D.
- Effect on the ozone layer : Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect : no data available
- Effect on waste water purification : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Hazardous waste (91/689/EEC)
- Mix well, set outdoor, next day dispose as solid waste, follow local regulations.

13.2 Disposal methods:

- Recycle/reuse
- Allow waste to solidify

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10 (packaging containing residues of or contaminated by dangerous substances)

14. Transport information

14.1 Classification of the substance in compliance with UN Recommendations

UN number :
CLASS : NOT SUBJECT
SUB RISKS :
PACKING :
PROPER SHIPPING NAME :

14.2 ADR (transport by road)

CLASS : NOT SUBJECT
PACKING :
DANGER LABEL TANKS :
DANGER LABEL PACKAGES :

14.3 RID (transport by rail)

CLASS : NOT SUBJECT
PACKING :
DANGER LABEL TANKS :
DANGER LABEL PACKAGES :

14.4 ADNR (transport by inland waterways)

CLASS : NOT SUBJECT
PACKING :
DANGER LABEL TANKS :
DANGER LABEL PACKAGES :

14.5 IMDG (maritime transport)

CLASS : NOT SUBJECT
SUB RISKS :
PACKING :
MFAG :
EMS :
MARINE POLLUTANT :

14.6 ICAO (air transport)

CLASS : NOT SUBJECT
SUB RISKS :
PACKING :
PACKING INSTRUCTIONS PASSENGER AIRCRAFT :
PACKING INSTRUCTIONS CARGO AIRCRAFT :

14.7 Special precautions in connection with transport

: not restricted for any mode of international transport

15. Regulatory information

Classification according to directives 67/548/EEC and 1999/45/EC



Irritant

contains: phenol/formaldehyde/glycidyl ether, polymer

R36/38 : Irritating to eyes and skin
R43 : May cause sensitization by skin contact

S24/25 : Avoid contact with skin and eyes
S37 : Wear suitable gloves

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
* = INTERNAL CLASSIFICATION

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2002
OES : Occupational Exposure Standards - United Kingdom 2001
MEL : Maximum Exposure Limits - United Kingdom 2001
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK : Technische Richtkonzentrationen - Germany 2001
MAC : Maximale aanvaarde concentratie - The Netherlands 2002
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 2002
GWK : Grenswaarde kortstondige blootstelling - Belgium 2002
EC : Indicative occupational exposure limit values - directive 2000/39/EC

Full text of any R-phrases referred to under heading 2:

R36/38 : Irritating to eyes and skin
R43 : May cause sensitization by skin contact