

SAFETY DATA SHEET

Based on Directive 2001/58/EC of the Commission of the European Communities

SUPERFAST PLUS ACTIVATOR

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. NFPA code : N.D.
EINECS No. : N.A. Molecular weight : N.A.
RETCS No. : N.A. Formula : N.A.

1.2 Use of the substance or the preparation:

Glue/adhesive: activator

1.3 Company/undertaking identification:

CTEC LTD
Unit 6 Ashtree Enterprise Park
Newry BT34 1PJ
Tel. : (028)30834892
Fax : (028)30264444

1.4 Telephone number for emergency:

+ as above

2. Composition/information on ingredients

| Hazardous ingredients | CAS No. EINECS No. | Conc. in % | Hazard symbol | Risks (R-phrases) |
|--------------------------|-----------------------|---------------|------------------|-----------------------|
| N,N-dimethyl-p-toluidine | 99-97-8 202-805-4 | < 0.3 | T | 23/24/25-33-52/53 (1) |
| heptane | 142-82-5 205-563-8 | 50-70 | F; Xn; N | 11-38-50/53-65-67 (1) |
| butane | 106-97-8 203-448-7 | <50 | F+ | 12 (1) |
| propane | 74-98-6 200-827-9 | <50 | F+ | 12 (1) |

(1) Voor volledige tekst van R-zinnen: see heading 16

3. Hazards identification

- Extremely flammable
- Irritant to the skin
- Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
- Vapours may cause drowsiness and dizziness

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4. First aid measures

- 4.1 Eye contact:**
- If irritation persists: consult a doctor/medical service
 - Rinse immediately with plenty of water for 15 minutes
 - Do not apply neutralizing agents
- 4.2 Skin contact:**
- If irritation persists: consult a doctor/medical service
 - Wash immediately with lots of water and soap for 15 minutes
- 4.3 After inhalation:**
- If breathing problems develop: consult a doctor/medical service
 - Remove the victim into fresh air
 - Unconscious: maintain adequate airway and respiration
- 4.4 After ingestion:**
- If you feel unwell: consult a doctor/medical service
 - Never give water to an unconscious person

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Polyvalent foam
 - BC powder
 - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- Water
- 5.3 Special exposure hazards:**
- Gas/vapour spreads at floor level: ignition hazard
 - May build up electrostatic charges: risk of ignition
 - On burning: release of carbon monoxide/carbon dioxide
- 5.4 Instructions:**
- Do not move the load if exposed to heat
- 5.5 Special protective equipment for firefighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
 - Large spills/in enclosed spaces: compressed air apparatus

6. Accidental release measures

- 6.1 Personal protection/precautions:**
See heading 8.1/8.3/10.3
- 6.2 Environmental precautions:**
- Substance must not be discharged into the sewer
 - Dam up the liquid spill
- 6.3 Methods of cleaning up:**
- Take up liquid spill into inert absorbent material
 - Absorbed substance: shovel in closing drums
 - Carefully collect the spill/leftovers
 - Take collected spill to manufacturer/competent authority
 - Wash clothing and equipment after handling

7. Handling and storage

- 7.1 Handling:**
- Observe strict hygiene
 - Use spark-/explosionproof appliances and lighting system
 - Take precautions against electrostatic charges
 - Remove contaminated clothing immediately
 - Clean contaminated clothing
- 7.2 Storage:**
- Keep out of direct sunlight
 - Store in a cool area
 - Meet the legal requirements
 - Provide the tank with earthing.
 - Keep away from: heat sources, ignition sources, oxidizing agents

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| | | |
|-------------------------|---------------------|------|
| Storage temperature | : < 50 | °C |
| Quantity limit | : N.D. | kg |
| Storage life | : N.D. | days |
| Materials for packaging | : | |
| - to avoid | : no data available | |

7.3 Specific uses:

- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

heptane

| | | | | |
|-----------------|--------|-------------------|-----|-----|
| TLV-TWA | : | mg/m ³ | 400 | ppm |
| TLV-STEL | : | mg/m ³ | 500 | ppm |
| OES-LTEL | : - | mg/m ³ | 500 | ppm |
| OES-STEL | : - | mg/m ³ | - | ppm |
| MAK | : 2100 | mg/m ³ | 500 | ppm |
| MAC-TGG 8 h | : 1200 | mg/m ³ | | |
| MAC-TGG 15 min. | : 1600 | mg/m ³ | | |
| VME-8 h | : 1600 | mg/m ³ | 400 | ppm |
| VLE-15 min. | : - | mg/m ³ | - | ppm |
| GWBB-8 h | : 1664 | mg/m ³ | 400 | ppm |
| GWK-15 min. | : 2080 | mg/m ³ | 500 | ppm |
| EC | : 2085 | mg/m ³ | 500 | ppm |
| EC-STEL | : - | mg/m ³ | - | ppm |

butane

| | | | | |
|-------------|--------|-------------------|------|-----|
| TLV-TWA | : | mg/m ³ | 1000 | ppm |
| TLV-STEL | : | mg/m ³ | - | ppm |
| OES-LTEL | : 1450 | mg/m ³ | 600 | ppm |
| OES-STEL | : 1810 | mg/m ³ | 750 | ppm |
| MAK | : 2400 | mg/m ³ | 1000 | ppm |
| MAC-TGG 8 h | : 1430 | mg/m ³ | | |
| VME-8 h | : 1900 | mg/m ³ | 800 | ppm |
| VLE-15 min. | : - | mg/m ³ | - | ppm |
| GWBB-8 h | : 1928 | mg/m ³ | 800 | ppm |
| GWK-15 min. | : - | mg/m ³ | - | ppm |

propane

| | | | | |
|-------------|--------|-------------------|------|-----|
| TLV-TWA | : | mg/m ³ | 1000 | ppm |
| TLV-STEL | : | mg/m ³ | - | ppm |
| MAK | : 1800 | mg/m ³ | 1000 | ppm |
| GWBB-8 h | : - | mg/m ³ | - | ppm |
| GWK-15 min. | : - | mg/m ³ | - | ppm |

Sampling methods:

| | | |
|--|-------|------|
| - Butane | OSHA | CSI |
| - Propane | OSHA | CSI |
| - n-Heptane (Hydrocarbons, BP 26 to 126 C) | NIOSH | 1500 |
| - n-Heptane | OSHA | 7 |

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection:

- Gas mask
- High gas/vapour concentration: compressed air/oxygen apparatus

8.3.2 hand protection:

- Gloves
- Suitable materials: No data available

- Breakthroughtime: N.D.

8.3.3 eye protection:

- Protective goggles

8.3.4 skin protection:

- Head/neck protection
- Heatproof clothing
- Suitable materials: No data available

9. Physical and chemical properties

9.1 General information:

| | |
|----------------------|------------------|
| Appearance (at 20°C) | : Aerosol |
| Odour | : Petroleum-like |
| Colour | : yellow |

9.2 Important health, safety and environmental information::

| | | |
|---------------------------------------|------------------------------|------------|
| pH value | : N.D. | |
| Boiling point/boiling range | : N.D. | °C |
| Flashpoint | : N.D. | °C |
| Explosion limits | : N.D. | vol% (°C) |
| Vapour pressure (at 20°C) | : 2500 | hPa |
| Vapour pressure (at 50°C) | : N.D. | hPa |
| Relative density (at 20°C) | : 0.6 | |
| Water solubility | : Insoluble | |
| Soluble in | : Ethanol, ether, chloroform | |
| Relative vapour density | : N.D. | |
| 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/m ³ |

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10. Stability and reactivity

10.1 Conditions to avoid/reactivity:

- Unstable on exposure to heat

10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources, oxidizing agents

10.3 Hazardous decomposition products:

- On burning: release of carbon monoxide/carbon dioxide

11. Toxicological information

11.1 Acute toxicity:

heptane

| | | |
|---------------------|-----------|----------|
| LD50 oral rat | : > 15000 | mg/kg |
| LD50 dermal rabbit | : N.D. | mg/kg |
| LD50 dermal rabbit | : > 3160 | mg/kg |
| LC50 inhalation rat | : 103 | mg/l/4 h |
| LC50 inhalation rat | : 25000 | 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) | : C (butane) |
| Carcinogenicity (MAK) | : not listed |
| Mutagenicity (MAK) | : not listed |
| Teratogenicity (MAK) | : - (heptane)(propane)(butane) |
| IARC classification | : not listed |

11.3 Routes of exposure: inhalation, eyes and skin

11.4 Acute effects/symptoms:

AFTER INHALATION

- CNS depression
- Headache
- Dizziness
- Coordination disorders
- Feeling of weakness
- Nausea

AFTER SKIN CONTACT

- Tingling/irritation of the skin
- Red skin

AFTER EYE CONTACT

- Irritation of the eye tissue

11.5 Chronic effects:

ON CONTINUOUS EXPOSURE/CONTACT:

- Dry skin
- Skin rash/inflammation

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12. Ecological information

12.1 Ecotoxicity:

N,N-dimethyl-p-toluidine:

- LC50 (96 h) : 46 mg/l (PIMEPHALES PROMELAS)

heptane:

- LC50 (96 h) : 375 mg/l (TILAPIA MOSAMBICA)

- EC50 (48 h) : 0.2 mg/l (CHAETOGAMMARUS MARINUS)

- EC50 (8 h) : 1.5 mg/l (ALGAE)

12.2 Mobility:

- Volatile organic compounds (VOC): 100%

- Insoluble in water

For other physicochemical properties see section 9

12.3 Persistence and degradability:

- biodegradation BOD₅ : N.D. % ThOD

- water : No data available

- soil : T ½: N.D. days

12.4 Bioaccumulative potential:

- log P_{ow} : N.D.

- BCF : N.D.

12.5 Other adverse effects:

- WGK : 1 (internal classification)
- Effect on the ozone layer : no data available
- Greenhouse effect : no data available
- Effect on waste water purification : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 09 (waste adhesives and sealants containing organic solvents or other dangerous substances)
- Waste material code (Flanders): 015, 512, 651
- Hazardous waste (91/689/EEC)

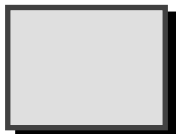
13.2 Disposal methods:

- Specific treatment
- Do not discharge into surface water

13.3 Packaging:

- 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 | : | 1950 |
| CLASS | : | 2.1 |
| SUB RISKS | : | - |
| PACKING | : | - |
| PROPER SHIPPING NAME | : | UN 1950, Aerosols, MARINE POLLUTANT (heptane) |
- 14.2 ADR (transport by road)
- | | | |
|-----------------------|---|-----|
| CLASS | : | 2 |
| CLASSIFICATION CODE | : | 5 F |
| DANGER LABEL TANKS | : | - |
| DANGER LABEL PACKAGES | : | 2.1 |
- 14.3 RID (transport by rail)
- | | | |
|-----------------------|---|-----|
| CLASS | : | 2 |
| CLASSIFICATION CODE | : | 5 F |
| DANGER LABEL TANKS | : | - |
| DANGER LABEL PACKAGES | : | 2.1 |
- 14.4 ADNR (transport by inland waterways)
- | | | |
|-----------------------|---|-----|
| CLASS | : | 2 |
| CLASSIFICATION CODE | : | 5 F |
| DANGER LABEL TANKS | : | - |
| DANGER LABEL PACKAGES | : | 2.1 |
- 14.5 IMDG (maritime transport)
- | | | |
|------------------|---|----------|
| CLASS | : | 2.1 |
| SUB RISKS | : | - |
| PACKING | : | - |
| MFAG | : | - |
| EMS | : | F-D, S-U |
| MARINE POLLUTANT | : | P |
- 14.6 ICAO (air transport)
- | | | |
|---|---|----------|
| CLASS | : | 2.1 |
| SUB RISKS | : | - |
| PACKING | : | - |
| PACKING INSTRUCTIONS PASSENGER AIRCRAFT | : | 203/Y203 |
| PACKING INSTRUCTIONS CARGO AIRCRAFT | : | 203 |
- 14.7 Special precautions in connection with transport : none
- 14.8 Limited quantities (LQ) :

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, **only** the following prescriptions shall be complied with:

each package shall display a diamond-shaped figure with the following inscription:

- 'UN 1950'

or, in the case of different goods with different identification numbers within a single package:

- the letters 'LQ'

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15. Regulatory information

Labelling in accordance with EC directives 67/548/EEC and 1999/45/EC (**: see heading 16)



Extremely flammable



Irritant



Dangerous for the environment

Contains : heptane

R12 : Extremely flammable
R38 : Irritant to the skin
R50/53 : Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R67 : Vapours may cause drowsiness and dizziness

S23 : Do not breathe spray
S51 : Use only in well ventilated area
S60 : This material and/or its container must be disposed of as
S61 : Avoid release to the environment. Refer to special instructions/safety data sheets

Keep away from sources of ignition - No smoking.
Keep out of reach of children.
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn after use.
Do not spray on a naked flame or any incandescent material

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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

(**) Labelling:

The labelling of the substance described in this MSDS complies with the provisions of Directive 1999/45/EC of 31 May 1999, published in the Official Journal of the European Communities L 200 of 30/07/1999. This Directive replaces Directive 88/379/EEC of 7 June 1988, published in the Official Journal of the European Communities L 187 of 16/07/1988.

Member States shall apply the laws, regulations and administrative provisions referred to in article 22 of this Directive:

(a) to preparations not within the scope of Directive 91/414/EEC or Directive 98/8/EC as from 30 July 2002; and

(b) to preparations within the scope of Directive 91/414/EEC or Directive 98/8/EC as from 30 July 2004.

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

R11 : Highly flammable
R12 : Extremely flammable
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed
R33 : Danger of cumulative effects
R38 : Irritant to the skin
R50/53 : Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R52/53 : Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R65 : Harmful: may cause lung damage if swallowed
R67 : Vapours may cause drowsiness and dizziness

Exposure limits:

TLV : Threshold Limit Value - ACGIH US 2002
OES : Occupational Exposure Standards - United Kingdom 1999
MEL : Maximum Exposure Limits - United Kingdom 1999
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

I : Inhalable fraction = **T** : Total dust = **E** : Einatembarer Aerosolanteil

R : Respirable fraction = **A** : Alveolengängiger Aerosolanteil/Alveolar dust

C : Ceiling limit

| | | | | |
|------------|------------------|--------------|-------------------|------------|
| a: | aerosol | r: | rook/Rauch | (fume) |
| d: | damp (vapour) | st: | stof/Staub | (dust) |
| du: | dust | ve: | vezel | (fibre) |
| fa: | Faser (fibre) | va: | vapour | |
| fi: | fibre | om: | oil mist | |
| fu: | fume | on: | olienevel/Ölnebel | (oil mist) |
| p: | poussière (dust) | part: | particles | |

Chronic toxicity:

K : List of the carcinogenic substances and processes - the Netherlands 2002