

**Safety Data Sheet** according to Regulation (EC) No 1907/2006

CITO-SYSTEM GmbH

Revision date: 20.08.2014

Revision No: 1,0

**CITO Activator-Spray**

11458-0011

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

CITO Activator-Spray

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

#### **Use of the substance/mixture**

Activator spray for cyanoacrylate adhesives for acceleration and hardening

### 1.3. Details of the supplier of the safety data sheet

Company name: CITO-SYSTEM GmbH  
Street: Haimendorfer Straße 37 + 46  
Place: D-90571 Schwaig  
Telephone: +49 (0)911/95885-0  
Telefax: +49 (0)911/95885-50  
e-mail: info@cito.de  
Internet: www.cito.de

Responsible for the safety data sheet: sds@gbk-ingelheim.de

**1.4. Emergency telephone number:** INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24  
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Indications of danger: F+ - Extremely flammable, Xi - Irritant, N - Dangerous for the environment

R phrases:

Extremely flammable.

Irritating to skin.

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

Vapours may cause drowsiness and dizziness.

#### **GHS classification**

Hazard categories:

Aerosol: Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.

May cause drowsiness or dizziness.

Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

#### **Hazardous components which must be listed on the label**

Naphtha (petroleum)

n-Heptane

Signal word: Danger

Pictograms: GHS02-GHS07-GHS09

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**Hazard statements**

- |      |   |
|------|---|
| H222 | Extremely flammable aerosol.                          |
| H229 | Pressurised container: May burst if heated.           |
| H315 | Causes skin irritation.                               |
| H336 | May cause drowsiness or dizziness.                    |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Precautionary statements**

- |           |  |
|-----------|--|
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211      | Do not spray on an open flame or other ignition source.  |
| P251      | Do not pierce or burn, even after use.   |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.                   |
| P261      | Avoid breathing spray.   |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection.                     |
| P302+P352 | IF ON SKIN: Wash with plenty of water.   |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                     |
| P273      | Avoid release to the environment.  |
| P312      | Call a POISON CENTER/doctor if you feel unwell.  |

**2.3. Other hazards**

In use, may form flammable/explosive vapour-air mixture.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Solvent mixture

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**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
270-704-2	Petroleum gases, liquefied; Petroleum gas	30 - 50 %
68476-85-7	F+ - Extremely flammable R12	
649-202-00-6	Flam. Gas 1, Compressed gas; H220 H280	
921-024-6	Naphtha (petroleum)	30 - 50 %
64742-49-0	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-38-51-53-65-67	
649-328-00-1	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
01-2119475514-35		
205-563-8	n-Heptane	10 - 25 %
142-82-5	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-65-38-67-50-53	
601-008-00-2	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H225 H315 H336 H304 H400 H410	
01-2119457603-38		
204-881-4	2,6-bis(1,1-dimethylethyl)-4-methylphenol	< 1 %
128-37-0	N - Dangerous for the environment R50-53	
	Aquatic Chronic 1 (M-Factor = 1); H410	
01-2119480433-40		
202-805-4	N,N-dimethyl-p-toluidine	< 1 %
99-97-8	T - Toxic R23/24/25-33-52-53	
612-056-00-9	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 ** H412	

Full text of R-, H- and EUH-phrases: see section 16.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

Remove contaminated soaked clothing immediately.

Take away from danger area and lay down affected person.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours.

In the event of symptoms refer for medical treatment.

**After contact with skin**

Wash off with soap and plenty of water.

Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Seek medical treatment by eye specialist.

**After ingestion**

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

Induce vomiting only upon the advice of a physician.

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

Causes skin irritation.

May cause drowsiness or dizziness.

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

Treat symptoms.

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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

##### **Unsuitable extinguishing media**

Full water jet.

#### **5.2. Special hazards arising from the substance or mixture**

Fire may produce:

Carbon monoxide and carbon dioxide

#### **5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.

Protective suit.

##### **Additional information**

Heating will cause pressure rise with risk of bursting.

Cool containers at risk with water spray jet.

Flashback at a long distance is possible.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

In case of vapour formation use respirator.

Use only explosion-proof equipment.

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

#### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.

Do not discharge into the subsoil/soil.

#### **6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

#### **6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

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### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Ensure adequate ventilation.

Avoid contact with skin, eyes and clothing.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Do not spray on a naked flame or any other incandescent material.

Heating will cause pressure rise with risk of bursting.

#### **7.2. Conditions for safe storage, including any incompatibilities**

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#### Requirements for storage rooms and vessels

Keep containers tightly closed in a cool, well-ventilated place.

#### Advice on storage compatibility

Incompatible with strong acids and oxidizing agents.

#### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

#### 7.3. Specific end use(s)

Activator spray for cyanoacrylate adhesives for acceleration and hardening

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
68476-85-7	Liquefied petroleum gas	1000	1750		TWA (8 h)	WEL
		1250	2180		STEL (15 min)	WEL
142-82-5	n-Heptane	500	2085		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.

When using, do not eat, drink or smoke.

Remove and wash contaminated clothes before re-use.

Avoid contact with eyes, skin or mucous membrane.

#### Eye/face protection

Safety goggles with side protection (EN 166).

Eye wash bottle with pure water (EN 15154).

#### Hand protection

Splash protection:

Protective gloves resistant to chemicals made off nitrile, minimum coat thickness 0.4 mm, permeation resistance (wear duration) approx. 30 minutes, i.e. protective glove <Camatril Velours 730> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

#### Skin protection

Long sleeved clothing (EN 368).

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type AX) (EN 141).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	Various
Odour:	Aromatic
Flash point:	n.d.

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Lower explosion limits:	n.d.
Upper explosion limits:	n.d.
Vapour pressure: (at 20 °C)	n.d.
Density (at 20 °C):	n.d.
Water solubility: (at 20 °C)	Slightly miscible
Ignition temperature:	n.d.

**9.2. Other information**

No data available.

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with acids and strong oxidizing agents.

**10.4. Conditions to avoid**

Fire or intense heat may cause violent rupture of packages.

In use formation of flammable/explosive vapour-air mixtures possible.

**10.5. Incompatible materials**

Strong acids and oxidizing agents.

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

Based on available data, the classification criteria are not met.

No toxicological data available.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
128-37-0	2,6-bis(1,1-dimethylethyl)-4-methylphenol				
	oral	LD50 mg/kg	> 2000	Rat	
	dermal	LD50 mg/kg	> 2000	Rat	
99-97-8	N,N-dimethyl-p-toluidine				
	oral	ATE	100 mg/kg		
	dermal	ATE	300 mg/kg		
	inhalative (4 h) vapour	LC50	1,4 mg/l	Ratte	GESTIS
	inhalative aerosol	ATE	0,5 mg/l		

**Irritation and corrosivity**

Causes skin irritation.

Eye irritation: Not classified.

**Sensitising effects**

Based on available data, the classification criteria are not met.

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**STOT-single exposure**

May cause drowsiness or dizziness. (Naphtha (petroleum) ), (n-Heptane )

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**Practical experience****Other observations**

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

**SECTION 12: Ecological information****12.1. Toxicity**

Ecological data are not available.

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
128-37-0	2,6-bis(1,1-dimethylethyl)-4-methylphenol					
	Acute fish toxicity	LC50	0,464 mg/l	96 h		
	Acute algae toxicity	ErC50	0,057 mg/l			
	Acute crustacea toxicity	EC50	0,096 mg/l	48 h		

**12.2. Persistence and degradability**

Biodegradable.

**12.3. Bioaccumulative potential**

No data available.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
128-37-0	2,6-bis(1,1-dimethylethyl)-4-methylphenol	3,91 - 4,17
99-97-8	N,N-dimethyl-p-toluidine	2,81

**12.4. Mobility in soil**

Slight mobility in soil.

**12.5. Results of PBT and vPvB assessment**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

**12.6. Other adverse effects**

Hazardous water pollutant.

**Further information**

Do not flush into surface water or sanitary sewer system.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

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**Waste disposal number of waste from residues/unused products**

150111 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers  
Classified as hazardous waste.

**Contaminated packaging**

Offer empty spray cans to an established disposal company.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Limited quantity: 1 L / 30 kg  
Transport category: 2  
Tunnel restriction code: D

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Limited quantity: 1 L / 30 kg

**Marine transport (IMDG)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS (n-Heptane)  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Marine pollutant: Yes  
Limited quantity: 1 L / 30 kg  
EmS: F-D; S-U

**Air transport (ICAO)**

**14.1. UN number:** UN 1950



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**14.2. UN proper shipping name:** AEROSOLS

**14.3. Transport hazard class(es):** 2.1

**14.4. Packing group:** -

Hazard label: 2.1



Limited quantity Passenger: Y203 / 30 kg G

IATA-packing instructions - Passenger: 203

IATA-max. quantity - Passenger: 75 kg

IATA-packing instructions - Cargo: 203

IATA-max. quantity - Cargo: 150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes



**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

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

The transport takes place only in approved and appropriate packaging.

**SECTION 15: Regulatory information**

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

**EU regulatory information**

1999/13/EC (VOC): 100 %

**National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

**Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC = Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

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LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

**Relevant R-phrases (Number and full text)**

- 11 Highly flammable.
- 12 Extremely flammable.
- 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- 33 Danger of cumulative effects.
- 38 Irritating to skin.
- 50 Very toxic to aquatic organisms.
- 51 Toxic to aquatic organisms.
- 52 Harmful to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

**Relevant H- and EUH-phrases (Number and full text)**

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*