



## **C-SYSTEMS STEEL BLUE component B**

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

#### **1.1 Product Identifier**

Commercial name : C-Systems Steel Blue component B - YELLOW

UFI : E720-30CK-500W-VGNH

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

**against** Type of application (Use) : Hardener for epoxy resin

Usage Restrictions recommended : Reserved for industrial and professional users.

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

Society : Cecchi Gustavo & C. srl - Via M. Coppino 253,  
55049 Viareggio (LU) ITALY www.cecchi.it - info@cecchi.it

**1.4 Emergency telephone number:** +39 0584 383694 - info@cecchi.it

from Monday to Friday office hours 8:30 – 12:30, 14:00 – 18:30

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### **SECTION 2: hazard identification**

#### **2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) N. 1272/2008)** Acute

toxicity, Category 4

H302: Harmful if swallowed.

Skin Corrosion, Subcategory 1A

H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1

H318: Causes serious eye damage.

Skin sensitization, Category 1

H317: May cause an allergic skin reaction.

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### 2.2 Elements of the label

**Labeling (REGULATION (EC) N. 1272/2008) Hazard**

pictograms :



Warning : Danger

Warning notices : H302 Harmful if swallowed.  
H314 It causes serious skin burns and serious eye  
H317 injuries. May cause an allergic skin reaction.

Cautionary advice : **Prevention:**  
P261 Avoid breathing mist or vapours. Wear gloves/  
P280 protective clothing/eye protection  
eyes/ face protection/ hearing protection.  
**Reaction:**  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. DO NOT  
induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately  
all contaminated clothing. Rinse skin.  
  
P304 + P340 + P310 IF INHALED: Remove victim to fresh air  
and keep at rest in a position comfortable for breathing.  
Immediately call a POISON CENTER/doctor.  
  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with  
water for several minutes. Remove any contact lenses if it is  
easy to do so. Continue rinsing. Immediately call a POISON  
CENTER/doctor.

**Hazardous components to be indicated on the label:**

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

### 2.3 Other dangers

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

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Ecological information: The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Aliphatic amine

#### Components

Chemical Name	CAS No EC no INDEX NO Number of registration	Classification	concentration and (%w/w)
2,2,4(or 2,4,4)- trimethylhexane-1,6-diamine	25513-64-8 247-063-2 01-2119560598-25	Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317	> = 50 - <= 100

For explanations of abbreviations see paragraph 16.

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### SECTION 4: first aid measures

#### 4.1 Description of first aid measures General

- information : Show this safety data sheet to the attending physician.  
Keep warm in a quiet room.  
Take off all contaminated clothing immediately.
- If inhaled : Take to fresh air.  
Put the person concerned in a resting position and keep him warm.  
If unconscious, place on side in stable position and consult a doctor.  
If symptoms persist, consult a doctor. In case of irregular breathing or respiratory arrest, give artificial respiration.
- In case of skin contact : Wash immediately with soap and plenty of water. Do not use solvents or thinners.  
If it gets on clothing, remove clothing. Burns must be treated by a doctor.
- In case of contact with eyes : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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If eye irritation persists, consult a physician. If this is easy, remove contact lenses, if they are worn.

If ingested : DO NOT induce vomiting.  
If victim vomits while lying on back, turn to side. Call a doctor immediately.  
Give small quantities of water to drink.

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

Symptoms : Burn  
superficial burning sensation.  
Redness  
Severe irritation

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

Treatment : First Aid procedure should be agreed  
consulting the competent occupational physician.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media Suitable

extinguishing media : Carbon dioxide (CO2)  
Foam  
Dry powder  
Watery fog

Unsuitable extinguishing media : Not known.

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

Specific dangers vs the fire : Pressure in hermetically sealed containers can increase under the influence of heat.  
Cool closed containers near the flames with nebulised water.  
Hazardous decomposition products in case of fire.

#### 5.3 Advice for firefighters

Protection devices special for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : In case of fire and/or explosion do not breathe fumes. Use extinguishing systems compatible with the local situation and the surrounding environment.  
Immediately evacuate personnel to safe areas. Prevent water from fire extinguishers from contaminating surface water or groundwater.

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## SECTION 6: Accidental release measures

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

Individual precautions : Refer to the protective measures listed in sections 7 and 8.  
Evacuate personnel to safe areas. Use personal protective equipment. Provide adequate ventilation.  
Inform the responsible authorities in the event of a gas leak, or if it enters pipes, soil or sewers.

### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled dumping of the product in the environment.  
Prevent the material from entering drains or water courses.  
  
Local authorities must be notified if leaks cannot be contained.

### 6.3 Methods and materials for containment and cleaning up Methods

of reclamation : Dry with inert material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain and collect spillage with non-combustible absorbent material (such as sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local or national regulations (see section 13).  
  
Collect and transfer to a properly labeled container.

### 6.4 Reference to other sections

See Section 8 for personal protective equipment.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Instructions for use: safe Ensure sufficient air exchange and/or exhaust in workplaces.  
Do not breathe vapors or spray.  
Avoid inhalation, ingestion and contact with skin and eyes.  
  
Wear protective clothing.  
Persons with a history of skin hypersensitivity or asthma, chronic allergies or recurrent respiratory disease should not be employed in any process in which this mixture is used.

Advice on protection against fire and : Keep away from open flames, hot surfaces and sources of explosions  
ignition.

Hygiene measures : Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

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

Warehouse and container requirements: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. To preserve the quality of the product, do not store near a heat source and do not expose to direct light.

Additional information for the conditions of storage : Protect from moisture.

Directions for the storage together with other products : Keep away from isocyanates. Do not store near acids. Keep away from oxidizing agents.

Learn more about storage stability : Stable under normal environmental conditions of temperature and pressure.

### 7.3 Particular End Uses

Particular uses : Consult the technical instructions for use of this substance/mixture.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Does not contain substances with occupational exposure limit values.  
Does not contain substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

Effective exhaust ventilation system effective ventilation in all process areas

#### Individual protection

Eye protection : Safety glasses with side protection according to the EN166 standard  
Do not wear contact lenses.  
Make sure that eyewash stations and emergency showers are close to the workstation.

Hand protection  
Material : Protective gloves according to EN 374.

Remarks : Nitrile rubber

Skin and body protection : Protection suit  
Preventive skin protection suggested

Respiratory protection : Use a respirator during handling involving possible exposure to product vapor.  
The filter class of the respirator must be suitable for the maximum anticipated concentration of the contaminant (gas/vapour/particulate) which could occur when

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manipulate the product. If the concentration is exceeded, self-contained breathing apparatus must be used.  
Suggested filter type:  
Filter - ABEK  
The equipment must comply with EN 14387

Protection arrangements : Avoid contact with skin. Wear suitable protective clothing.

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### SECTION 9: physical and chemical properties

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

physical state : liquid

Color : yellow

Odor : ammoniacal

Olfactory threshold : not determined

Melting point/freezing point : Not applicable

Boiling point/range : > 200 °C

Upper explosion limit : Not applicable / Upper limit of flammability

Lower explosion limit / : Not applicable Lower limit of flammability

Flash point : 100°C

Ignition temperature : Not applicable

Temperature of self-ignition : Not applicable

Temperature of decomposition : No data available

pH : 11  
Concentration: 1%

Viscosity  
Viscosity, dynamics : 5 - 10 mPa.s (25 °C)  
Viscosity, kinematics : not determined

Solubility/solubilities.

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Water solubility : not determined

Solubility in other solvents : not determined

Partition coefficient: n- : No data available octanol/water

Vapor pressure : not determined

Density : 0.88 g/cm<sup>3</sup> (25 °C)

Apparent density : not determined

Relative vapor density : not determined

Particle characteristics

particle size :Not applicable

Particle size : Not applicable

### 9.2 Other Information

Explosives : Not applicable

Oxidizing properties : Not applicable

Self-ignition : Not applicable

Evaporation rate : Not determined

Surface tension : Not determined

Sublimation point : Not applicable

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## SECTION 10: stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

dangerous reactions : Reacts with the following substances:  
Acids  
Strong oxidizing agents

### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used according to the specific instructions.

### 10.5 Incompatible materials



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Materials to avoid : Strong acids  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

This product can release the following:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

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## SECTION 11: toxicological information

### 11.1 Information on the hazard classes defined in Regulation (EC) No. 1272/2008

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: 506.07 mg/kg  
Method: Method of calculation

Acute toxicity for inhalation : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Acute toxicity (by other routes of administration) : Remarks: No data available

#### Skin corrosion/irritation

##### Product:

Remarks : No data available

#### Serious eye damage/irritation

##### Product:

Remarks : No data available

#### Respiratory or skin sensitisation

##### Product:

Remarks : No data available

#### Carcinogenicity

##### Product:

Remarks : No data available

#### Reproductive toxicity

##### Product:

Effects on fertility : Remarks: No data available

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Effects on fetal development : Remarks: No data available

### Specific target organ toxicity (STOT) - single exposure

**Product:**

Remarks : No data available

### Specific target organ toxicity (STOT) - repeated exposure

**Product:**

Remarks : No data available

### Repeated dose toxicity

**Product:**

Remarks : No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture contains no considered components having endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

**Product:**

Remarks : No data available

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## SECTION 12: ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

### 12.2 Persistence and degradability

**Product:**

Biodegradability : Remarks: No data available

Physico-chemical elimination : Remarks: No data available

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### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

**12.4 Mobility in soil** No data  
available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

### 12.6 Endocrine-disrupting properties

**Product:**

Assessment : The substance/mixture contains no considered components having endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : In accordance with local and national regulations. Dangerous container when empty. Do not dispose of as household waste. Do not mix waste from different sources during collection.

Contaminated containers : Empty containers should be taken to an approved site for recycling or disposal.

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## SECTION 14: transport information

### 14.1 UN number or ID number

ADR/RID/ADN : UN 2735

IMDG extension : UN 2735

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**IATA** : UN 2735

### 14.2 UN proper shipping name

**ADR/RID/ADN** : CORROSIVE LIQUID AMINES, NOS (2,2,4(or  
2,4,4)-trimethylhexane-1,6-diamine)  
**IMDG extension** : AMINES, LIQUID, CORROSIVE, NOS (2,2,4(or  
2,4,4)-trimethylhexane-1,6-diamine)  
**IATA** : Amines, liquid, corrosive, nos  
(2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine)

### 14.3 Transport hazard classes

**ADR/RID/ADN** : 8  
**IMDG extension** : 8  
**IATA** : 8

### 14.4 Packing group

**ADR/RID/ADN**  
Packing group : III  
Classification code : C7  
Hazard identification  
number : 80  
Labels : 8  
Tunnel restriction code : AND

**IMDG extension**  
Packing group : III  
Labels : 8  
EmS Code : FA, SB  
Remarks : IMDG Code segregation group 18 - Alkalis

**IATA (Cargo)**  
Packing Instructions : 856  
(Cargo Aircraft)  
Packing group : III  
Labels : Corrosive

**IATA (Passenger)**  
Packing Instructions : 852  
(Passenger Aircraft)  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

### 14.5 Environmental hazards

**ADR/RID/ADN**  
Dangerous for the environment : no

**IMDG extension**  
Marine pollutant : no

### 14.6 Special precautions for users

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Remarks : The transport of dangerous goods, including loading and unloading, must be carried out by persons who have received the necessary training required by the modal regulations.

The transport classification(s) provided herein are for informational purposes only and based solely on the properties of the unpackaged material as described in this MSDS. Shipping classifications may vary based on mode of transportation, package sizes, and changes in regional or country regulations.

**14.7 Shipping in bulk in accordance with IMO acts** Not applicable to the product in its supplied form.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental laws and regulations specific to the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Must be considered the restriction conditions for the following items:  
Number in list: 3

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EC) no. 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) no. 649/2012 of the European Parliament and of the Council on the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorization (Annex XIV) : Not applicable

REGULATION (EU) 2019/1148 on the placing on the market and use of explosives precursors

: Not applicable

International Chemical Weapons Convention (CWC), : Not applicable list of chemical precursors and toxic products

Regulation (EC) no. 111/2005 of the Council containing rules for the control of trade in drug precursors between the Community and third countries : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on : Not applicable

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control of the danger of major accidents  
connected with dangerous substances.

Other legislations : In reference to the composition of the product, no we intentionally add none of the substances listed in the European Directive 2011/65/EU (RoHS 2, RoHS3 and China RoHS).  
Consequently, the product is in line with these directives.  
We do not intentionally add conflict minerals to the product.

## 15.2 Chemical safety assessment Not applicable

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### SECTION 16: other information

#### Full text of the H-Statements

H302 : Harmful if swallowed.  
H314 : It causes serious skin burns and serious eye  
H317 : injuries. May cause an allergic skin reaction. Causes  
H318 : serious eye damage.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye injuries  
Skin Corr. : Skin corrosion  
Skin Sens. : Skin sensitization

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the international carriage of dangerous goods by road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for Testing of Materials; bw - Body weight; CLP - Classification, Labeling and Packaging Regulation; Regulation (EC) No. 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardization; DSL - Domestic List of Substances (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Load rate associated with x% response; EmS - Emergency Program; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half of the maximum inhibitory concentration; ICAO - International Civil Aviation Organization; IECS - Inventory of Existing Chemicals China; IMDG - International Maritime Transport of Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Inventory of Existing Chemicals; LC50 - 50% lethal concentration for a test population; LD50 - 50% lethal dose for a test population (median lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships; nos - not otherwise specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observed Effect Load Rate; NZIoC - New Zealand Chemicals Inventory; OECD - Organization for Economic Co-operation and Development; OPPTS - Bureau of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative substance e KECI - Korea Inventory of Existing Chemicals; LC50 - 50% lethal concentration for a test population; LD50 - 50% lethal dose for a test population (median lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships; nos - not otherwise specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observed Effect Load Rate; NZIoC - New Zealand Chemicals Inventory; OECD - Organization for Economic Co-operation and Development; OPPTS - Bureau of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative substance e KECI - Korea Inventory of Existing Chemicals; LC50 - 50% lethal concentration for a test population; LD50 - 50% lethal dose for a test population (median lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships; nos - not otherwise specified; NO(A)EC - No Observed (Adverse) Effect Concentration; 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**C-SYSTEMS STEEL BLUE component B YELLOW**-February 2023 - batch n° 098-B3 - rev.1/22data sheet  
safety according to Regulation (EC) No. 1907/2006

toxic; PICCS - Chemical Substances Inventory of the Philippines; (Q)SAR - (Quantitative) Structure Activity Relationships; REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorization and restriction of chemical substances; RID - Regulations concerning the international rail transport of dangerous goods; SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemical Substances Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bioaccumulative

### Further information

Directions on training : Provision of information, instructions to operators and training.

### Classification of the mixture:

Acute Tox. 4	H302
Skin Corr. 1A	H314
Eye Dam. 1	H318
Skin Sens. 1	H317

### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

The information contained in this Safety Data Sheet is correct according to our best knowledge of the product at the time of publication. This information is provided for the sole purpose of allowing the use, storage, transport and disposal of the product in the most correct and safest way. This information should not be considered a guarantee or specification of product quality.

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