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### N,N-dimethylaniline ≥99 %, for synthesis



article number: **1CA6** Version: **GHS 3.0 en** Replaces version of: 2022-04-22 Version: (GHS 2)

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

### 1.1 Product identifier

CAS number

Identification of the substance Article number **N,N-dimethylaniline** ≥99 %, for synthesis

1CA6

121-69-7

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

Relevant identified uses:

Uses advised against:

Laboratory and analytical use Laboratory chemical

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

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

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

### e-mail (competent person):

### sicherheit@carlroth.de

### 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126	

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification acc. to GHS

Section	Hazard class		Hazard class and category	Hazard statement
2.6	Flammable liquid	4	Flam. Liq. 4	H227
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.1D	Acute toxicity (dermal)	4	Acute Tox. 4	H312
3.1I	Acute toxicity (inhal.)	3	Acute Tox. 3	H331

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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.6	Carcinogenicity	2	Carc. 2	H351

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

### 2.2 Label elements

### Labelling

Signal word Danger

### **Pictograms**

GHS06, GHS08



### **Hazard statements**

### **Precautionary statements**

#### **Precautionary statements - prevention**

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing

### **Precautionary statements - response**

P302+P352	IF ON SKIN: Wash with plenty of soap and water
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfort-
	able for breathing
P311	Call a POISON CENTER or doctor/physician
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction

#### **Precautionary statements - storage**

P403+P233 Store in a well-ventilated place. Keep container tightly closed

### **Precautionary statements - disposal**

P501 Dispose of contents/container to industrial combustion plant

### For professional users only

### 2.3 Other hazards

This material is combustible, but will not ignite readily.

### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

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3.1

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

Substances	
Name of substance	N,N-dimethylaniline
Molecular formula	C <sub>8</sub> H <sub>11</sub> N
Molar mass	121.2 <sup>g</sup> / <sub>mol</sub>
CAS No	121-69-7

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



#### **General notes**

Self-protection of the first aider.

### **Following inhalation**

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

### Following skin contact

Rinse skin with water/shower.

### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following ingestion**

Rinse mouth with water (only if the person is conscious). In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Call a doctor.

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

Vomiting, Irritant effects

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

none

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

### 5.1 Extinguishing media



### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

water jet

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

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapourair mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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

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



### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray. Avoidance of ignition sources.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

#### Advice on how to contain a spill

Covering of drains.

#### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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

### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Use extractor hood (laboratory). Avoid exposure.

### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

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Take precautionary measures against static discharge.

### Advice on general occupational hygiene

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed.

### Incompatible substances or mixtures

Observe hints for combined storage.

### Protect against external exposure, such as

direct light irradiation, UV-radiation/sunlight, contact with air/oxygen

### **Consideration of other advice:**

Store locked up.

### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

National limit values

### **Occupational exposure limit values (Workplace Exposure Limits)**

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
AU	N,N-dimethylaniline	121-69-7	WES	5	25	10	50			Н	WES

Notation

Ceiling value is a limit value above which exposure should not occur Ceiling-C н

Absorbed through the skin

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) STEL TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### 8.2 **Exposure controls**

### Individual protection measures (personal protective equipment)

### **Eve/face protection**



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Use safety goggle with side protection.

### Skin protection



### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

### • type of material

FKM (fluoro rubber)

#### • material thickness

0,4 mm

### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65  $^{\circ}$ C, colour code: Brown).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	light yellow - yellow
Odour	pungent
Melting point/freezing point	1.5 – 2.5 °C (ECHA)
Boiling point or initial boiling point and boiling range	185 °C at 960 hPa (ECHA)
Flammability	flammable liquid in accordance with GHS

criteria

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0,9 mm		
Auto-ignition temperaturenot determinedDecomposition temperaturenot relevantpH (value)7.4 (in aqueous solution: 1.2 %/, 20 °C)Kinematic viscosity11.88 mm²/s at 35 °CDynamic viscosity11 mPa s at 35 °CSolubility(ies)1.45 %/, 1at 20 °C (ECHA)Water solubility1.45 %/, 1at 20 °C (ECHA)Partition coefficient1.171 (pH value: 6.58, 35 °C) (ECHA)Partition coefficient n-octanol/water (log value):1.171 (pH value: 6.58, 35 °C) (ECHA)Soil organic carbon/water (log KOC)1.896 (ECHA)Vapour pressure1 hPa at 30 °CDensity and/or relative density0.926 %/cm³ at 35 °C (ECHA)Density and/or relative density0.926 %/cm³ at 35 °C (ECHA)Particle characteristicsnot relevant (liquid)Other safety parametersnoneOxidising propertiesnoneOther informationThere is no additional information.Casses:Characteristics:Other safety characteristics:There is no additional information.Other safety characteristics:IAOther safety characteristics:There is no additional information.	Lower and upper explosion limit	60 g/m³ (LEL) - 350 g/m³ (UEL) / 1.2 vol% (LEL) - 7 vol% (UEL)
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Maximum Experimental Safe Gap value; MES 0,9 mm	Other safety characteristics:	
	Gas group (explosion group)	Maximum Experimental Safe Gap value; MESG >
Surface tension 35.52 <sup>mN</sup> / <sub>m</sub> (25 °C) (ECHA)	Surface tension	35.52 <sup>mN</sup> / <sub>m</sub> (25 °C) (ECHA)

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### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

It's a reactive substance. Risk of ignition.

### If heated

Risk of ignition. Vapours may form explosive mixtures with air.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: Oxidisers, Acid halides, Acids

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from heat. Direct light irradiation. UV-radiation/sunlight. Contact with air/oxygen.

### 10.5 Incompatible materials

different plastics

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

### **11.1** Information on toxicological effects

### **Classification acc. to GHS**

### Acute toxicity

Harmful if swallowed. Harmful in contact with skin. Toxic if inhaled.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	951 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA
dermal	LD50	1,692 <sup>mg</sup> / <sub>kg</sub>	rabbit		ECHA

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Suspected of causing cancer.

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### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

### • If swallowed

Data are not available.

### • If in eyes

causes slight to moderate irritation

### • If inhaled

irritant effects

### • If on skin

causes slight to moderate irritation

### Other information

Other adverse effects: Central nervous system, Haematopoietic system

### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)							
Endpoint	Value	Species	Source	Exposure time			
LC50	78.2 <sup>mg</sup> / <sub>l</sub>	fish	ECHA	96 h			
EC50	8.1 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	24 h			

### 12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification): 2.64  $^{\rm mg}/_{\rm mg}$  Theoretical Oxygen Demand (with nitrification): 3.169  $^{\rm mg}/_{\rm mg}$  Theoretical Carbon Dioxide: 2.905  $^{\rm mg}/_{\rm mg}$ 

### Biodegradation

The substance is readily biodegradable.

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

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n-octanol/water (log KOW)	1.171 (pH value: 6.58, 35 °C) (ECHA)	
BCF	16 (ECHA)	

### 12.4 Mobility in soil

The Organic Carbon normalised adsorption coefficient	1.896 (ECHA)
--	--------------

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Sewage disposal-relevant information

Do not empty into drains.

### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### **Relevant provisions relating to waste(Basel Convention)**

#### Properties of waste which render it hazardous

H6.1 Poisonous (Acute)

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SEC	ECTION 14: Transport information		
14.1	1 UN number		
	UN RTDG	UN 2253	
	IMDG-Code	UN 2253	
	ICAO-TI	UN 2253	
14.2	UN proper shipping name		
	UN RTDG	N,N-DIMETHYLANILINE	

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article	e number: 1CA6	
	IMDG-Code	N,N-DIMETHYLANILINE
	ICAO-TI	N,N-Dimethylaniline
14.3	Transport hazard class(es)	
	UN RTDG	6.1
	IMDG-Code	6.1
	ICAO-TI	6.1
14.4	Packing group	
	UN RTDG	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	hazardous to the aquatic environment
14.6	Special precautions for user	
	There is no additional information.	
14.7	Transport in bulk according to IMO instruments	5
	The cargo is not intended to be carried in bulk.	
14.8	Information for each of the UN Model Regulation	ons
	Transport informationNational regulationsAdditional information(UN RTDG)	
	UN number	2253
	Class	6.1
	Environmental hazards	Yes Hazardous to the aquatic environment
	Packing group	II
	Danger label(s)	6.1 Fish and tree
	Special provisions (SP)	- UN RTDG
	Excepted quantities (EQ)	E4 UN RTDG
	Limited quantities (LQ)	100 ml UN RTDG
	Emergency Action Code	3Z
	International Maritime Dangerous Goods Code	(IMDG) - Additional information
	Proper shipping name	N,N-DIMETHYLANILINE
	Particulars in the shipper's declaration	UN2253, N,N-DIMETHYLANILINE, 6.1, II, MARINE POLLUTANT
	Marine pollutant	<b>Yes</b> (hazardous to the aquatic environment)
	Danger label(s)	6.1, "Fish and tree"

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### N,N-dimethylaniline ≥99 %, for synthesis



article number: 1CA6 

Special provisions (SP)	-
Excepted quantities (EQ)	E4
Limited quantities (LQ)	100 mL
EmS	F-A, S-A
Stowage category	A
International Civil Aviation Organization (ICAO-	ATA/DGR) - Additional information
Proper shipping name	N,N-Dimethylaniline
Particulars in the shipper's declaration	UN2253, N,N-Dimethylaniline, 6.1, II
Environmental hazards	<b>Yes</b> (hazardous to the aquatic environment)
Danger label(s)	6.1
Excepted quantities (EQ)	E4
Limited quantities (LQ)	1 L

### **SECTION 15: Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 There is no additional information.

### National regulations(Australia)

### Australian Inventory of Chemical Substances(AICS)

Substance is listed.

### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIOC	substance is listed

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### N,N-dimethylaniline ≥99 %, for synthesis



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Οοι	untry	Inventory	Status
1	PH	PICCS	substance is listed
1	ΓW	TCSI	substance is listed
	US	TSCA	substance is listed (ACTIVE)
``	٧N	NCI	substance is listed
AIIC CSCL- DSL ECSI IECSC INSQ KECI NCI NZI00 PICCS REAC TCSI	CSCL-ENCSList of Existing and New Chemical Substances (CSCL-ENCS)DSLDomestic Substances List (DSL)ECSIEC Substance Inventory (EINECS, ELINCS, NLP)IECSCInventory of Existing Chemical Substances Produced or Imported in ChinaINSQNational Inventory of Chemical SubstancesKECIKorea Existing Chemicals InventoryNCINational Chemical InventoryNZIOCNew Zealand Inventory of Chemicals and Chemical Substances (PICCS)PICCSPhilippine Inventory of Chemicals and Chemical Substances (PICCS)REACH Reg.REACH registered substances		

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.		yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
14.8		Emergency Action Code: 3Z	yes
15.1		National inventories: change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances

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## N,N-dimethylaniline ≥99 %, for synthesis



### article number: **1CA6**

Abbr.	Descriptions of used abbreviations
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
STEL	Short-term exposure limit
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants

### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H227	Combustible liquid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.