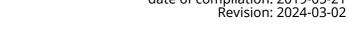
acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406 date of compilation: 2019-05-21 Version: 4.0 en

Replaces version of: 2022-07-21

Version: (3)



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

Product identifier 1.1

Identification of the substance **Nitromethane** ≥98,5 %, for synthesis

Article number 4406

Index No (GB CLP) 609-036-00-7 EC number 200-876-6 CAS number 75-52-5

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

Relevant identified uses: Isolated intermediate

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes (household). Food, drink and animal feeding-

stuffs.

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
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1

Classification acc. to GHS

United Kingdom (en) Page 1 / 18

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	3	Flam. Liq. 3	H226
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.6	Carcinogenicity	2	Carc. 2	H351
3.7	Reproductive toxicity	2	Repr. 2	H361fd

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 Warning

Pictograms

GHS02, GHS07, GHS08







Hazard statements

H226 Flammable liquid and vapour H302+H332 Harmful if swallowed or if inhaled H351 Suspected of causing cancer

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child

Precautionary statements

Precautionary statements - prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking

P260 Do not breathe mist/vapours

P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements - response

P308+P313 IF exposed or concerned: Get medical advice/attention

For professional users only

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

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

United Kingdom (en) Page 2 / 18

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Nitromethane

Molecular formula CH_3NO_2 Molar mass $61,04 \, {}^g/_{mol}$

CAS No 75-52-5

EC No 200-876-6

Index No (GB CLP) 609-036-00-7

Substance, Specific Conc. Limits, M-factors, ATE

Specific Conc. Limits	M-Factors	ATE	Exposure route
-	-	1.478 ^{mg} / _{kg} 15 ^{mg} / _l /4h	oral inhalation: vapour

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

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).

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects, Diarrhoea, Nausea, Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

none

United Kingdom (en) Page 3 / 18

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



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 (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air 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 (CO₂)

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.

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.

United Kingdom (en) Page 4 / 18

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



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. Avoid exposure.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Ground/bond container and receiving equipment.

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
GB	nitromethane	75-52-5	WEL	100	254	150	381				EH40/ 2005

Notation

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

United Kingdom (en) Page 5 / 18

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



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)

Human health values

Relevant DNE	Relevant DNELs and other threshold levels					
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time		
DNEL	20 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects		
DNEL	39 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects		
DNEL	39 mg/m³	human, inhalatory	worker (industry)	chronic - local effects		
DNEL	79 mg/m³	human, inhalatory	worker (industry)	acute - local effects		
DNEL	417 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects		
DNEL	2.500 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects		

Environmental values

Relevant	Relevant PNECs and other threshold levels					
End- point	Threshold level	Organism	Environmental com- partment	Exposure time		
PNEC	4,9 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)		

8.2 **Exposure controls**

Individual protection measures (personal protective equipment)

Eye/face protection





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 considerable 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

United Kingdom (en) Page 6 / 18



acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406

a guide.

type of material

Butyl caoutchouc (butyl rubber)

material thickness

0,5 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 °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 colourless
Odour characteristic
Melting point/freezing point -28,4 °C (ECHA)

Boiling point or initial boiling point and boiling 101,2 °C at 1.013 hPa

range

.....g,= cata

Flammability flammable liquid in accordance with GHS criteria

Lower and upper explosion limit 180 g/m³ (LEL) - 1.600 g/m³ (UEL) / 7,3 vol% (LEL) - 63 vol% (UEL)

Flash point 36 °C at 1.013 hPa (c.c.)

Auto-ignition temperature 430 °C at 1.013 hPa (auto-ignition temperature (li-

quids and gases))

Decomposition temperature not relevant

pH (value) 6,4 (in aqueous solution: 0,6 ^g/_l, 20 °C)

Kinematic viscosity $0,5685 \, ^{\text{mm}^2}/_{\text{s}}$ at 20 °C Dynamic viscosity $0,647 \, \text{mPa}$ s at 20 °C

Solubility(ies)

Water solubility $104,5 \, ^{9}/_{1}$ at $25 \, ^{\circ}\text{C}$ (ECHA)

United Kingdom (en) Page 7 / 18



acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406

Partition coefficient

35,65 mmHg at 25 °C Vapour pressure

Relative vapour density 2,11 (air = 1)

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

Other information

classes:

Other safety characteristics:

Maximum Experimental Safe Gap value; MESG >

0,9 mm

There is no additional information.

SECTION 10: Stability and reactivity

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: Acids, Bases, strong oxidiser, Acetone, Aldehydes, Alkali hydroxide (caustic alkali), Amines, Ammonia (NH3), Ammonium hydroxide, Aniline, Chloroform, Halogenated hydrocarbons, Hydrazine, Hydrocarbons, Metal powder, Methanol, Perchlorates, => Explosive properties

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

Rubber articles, different plastics

10.6 Hazardous decomposition products

United Kingdom (en) Page 8 / 18



Partition coefficient n-octanol/water (log value): -0,35 (exp.)

Density and/or relative density

1,138 g/_{cm3} at 20 °C Density

9.2

Information with regard to physical hazard

Gas group (explosion group)

 $73,6 \,^{\text{mN}}/_{\text{m}} (21 \,^{\circ}\text{C}) (ECHA)$ Surface tension

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406

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 if inhaled.

GHS of the United Nations, annex 4. May be harmful in contact with skin.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	1.478 ^{mg} / _{kg}	rat		ECHA
dermal	LD50	>2.000 ^{mg} / _{kg}	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.

Reproductive toxicity

Suspected of damaging the unborn child. Suspected of damaging fertility.

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

diarrhoea, vomiting, nausea

• If in eyes

causes slight to moderate irritation

If inhaled

nausea, headache

United Kingdom (en) Page 9 / 18

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



Other information

Aquatic to	Aquatic toxicity (acute)					
Endp	oint	Value	Species	Source	Exposure time	
LC5	60	>659,2 ^{mg} / _l	fish	ECHA	96 h	
EC5	50	>103 ^{mg} / _l	aquatic invertebrates	ECHA	48 h	
ErC	50	>102 ^{mg} / _l	algae	ECHA	72 h	

12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification): $0 \frac{mg}{mg}$ Theoretical Oxygen Demand (with nitrification): 1,048 $\frac{mg}{mg}$

Theoretical Carbon Dioxide: 0,721 mg/mg

Process of degradability

Process	Degradation rate	Time
biotic/abiotic	10 %	28 d
oxygen depletion	2,4 %	5 d
carbon dioxide generation	36,2 %	5 d

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)	-0,35 (Exp.)
---------------------------	--------------

12.4 Mobility in soil

Data are not available.

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 $\geq 0.1\%$.

United Kingdom (en) Page 10 / 18



• If on skin

Frequently or prolonged contact with skin may cause dermal irritation

Other adverse effects: Liver and kidney damage, Methaemoglobinaemia

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



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

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Properties of waste which render it hazardous

HP 3 flammable acute toxicity

HP7 carcinogenić

HP 10 toxic for reproduction

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.

SECTION 14: Transport information

14.1 UN number or ID number

ADRRID UN 1261 IMDG-Code UN 1261 ICAO-TI UN 1261

14.2 UN proper shipping name

ADRRID NITROMETHANE

IMDG-Code NITROMETHANE

ICAO-TI Nitromethane

14.3 Transport hazard class(es)

ADRRID 3
IMDG-Code 3
ICAO-TI 3

United Kingdom (en) Page 11 / 18



acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



ADRRID II IMDG-Code II

ICAO-TI II

14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name NITROMETHANE

Particulars in the transport document UN1261, NITROMETHANE, 3, II, (E)

Classification code F1
Danger label(s) 3



Excepted quantities (EQ) E0
Limited quantities (LQ) 1 L
Transport category (TC) 2
Tunnel restriction code (TRC) E
Emergency Action Code 2Y

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

Classification code F1

Danger label(s) 3



Excepted quantities (EQ) E0
Limited quantities (LQ) 1 L
Transport category (TC) 2
Hazard identification No 33

United Kingdom (en) Page 12 / 18



acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name NITROMETHANE

Particulars in the shipper's declaration UN1261, NITROMETHANE, 3, II, 36°C c.c.

Marine pollutant Danger label(s) 3



Special provisions (SP) 26

Excepted quantities (EQ) E0

Limited quantities (LQ) 1 L

EmS F-E, S-D

Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Nitromethane

Particulars in the shipper's declaration UN1261, Nitromethane, 3, II

Danger label(s) 3



Special provisions (SP) A1, A39

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

Excepted quantities (EQ)

2012/18/EU (Seveso III)						
No	Dangerous substance/hazard categories	Qualifying quantity (plication of lower a quiren		Notes		
P5c	flammable liquids (cat. 2, 3)	5.000	50.000	51)		

E0

Notation

51) Flammable liquids, categories 2 or 3 not covered by P5a and P5b

Deco-Paint Directive

United Kingdom (en) Page 13 / 18

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



VOC content	100 %
VOC content	1.138 ^g / _l

Industrial Emissions Directive (IED)

VOC content	100 %
VOC content	1.138 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Nitromethane	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrinerelated functions in or via the aquatic environment		a)	

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

Explosives precursors which are subject to restrictions						
Name of substance	CAS No	Wt%	Type of registration	Re- marks	Limit value	Upper limit value for the pur- pose of licens- ing un- der Art- icle 5(3)
Nitromethane	75-52-5	100	Annex I		16 % w/w	100 % w/ w

Legend

Annex I

Substances which shall not be made available to members of the general public on their own, or in mixtures or substances including them, except if the concentration is equal to or lower than the limit values set out below

Additional statements

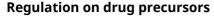
If the product is passed on to third parties, in accordance with Article 7 "Notification of the supply chain" of Regulation EU 2019/1148, the information obligation is subject to the entire supply chain and all other provisions mentioned in Article 7 on restricted and regulated raw materials.

United Kingdom (en) Page 14 / 18

acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

not listed

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)

Name of substance	Name acc. to inventory	CAS No	No
Nitromethane	this product meets the criteria for classi- fication in accordance with Regulation No 1272/2008/EC		3
Nitromethane	flammable / pyrophoric		40

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
PH	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

Australian Inventory of Industrial Chemicals List of Existing and New Chemical Substances (CSCL-ENCS)

Domestic Substances List (DSL)

United Kingdom (en) Page 15 / 18



acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406

Legend

ECSI IECSC INSQ

EC Substance Inventory (EINECS, ELINCS, NLP) Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances

KECI Korea Existing Chemicals Inventory
NCI National Chemical Inventory
NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances

Taiwan Chemical Substance Inventory

Toxic Substance Control Act

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
2.2		Hazard statements: change in the listing (table)	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1	VOC content: 100 % 1.138 ^g / _l	VOC content: 100 %	yes
15.1		VOC content: 1.138 ⁹ / _I	yes
15.1		Explosives precursors which are subject to re- strictions: change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

ADR Accord relatif au transport international des marcha ing the International Carriage ATE Acute Toxic CAS Chemical Abstracts Service (service that maintains t Ceiling-C Ceiling DGR Dangerous Goods Regulation DNEL Derived Note EC50 Effective Concentration 50 %. The EC50 corresponds 50 % changes in response (e.g. on gr	d abbreviations
CAS Chemical Abstracts Service (service that maintains to Ceiling-C Ceiling-C Dangerous Goods Region DNEL Derived Note: EC50 Effective Concentration 50 %. The EC50 corresponds 50 % changes in response (e.g. on green processed on the Concentration of the Concen	lises dangereuses par route (Agreement concern- Dangerous Goods by Road)
Ceiling-C DGR Dangerous Goods Regulation DNEL Derived Note to the EC50 Corresponds Solow Changes in response (e.g. on grade) EC No The EC Inventory (EINECS, ELINCS and the NLP-list) is	Estimate
DGR Dangerous Goods Regularity DNEL Derived No. EC50 Effective Concentration 50 %. The EC50 corresponds 50 % changes in response (e.g. on grange) EC No The EC Inventory (EINECS, ELINCS and the NLP-list) is	most comprehensive list of chemical substances)
DNEL EC50 Effective Concentration 50 %. The EC50 corresponds 50 % changes in response (e.g. on gr EC No The EC Inventory (EINECS, ELINCS and the NLP-list) is	alue
EC50 Effective Concentration 50 %. The EC50 corresponds 50 % changes in response (e.g. on gr	itions (see IATA/DGR)
50 % changes in response (e.g. on gr EC No The EC Inventory (EINECS, ELINCS and the NLP-list) is	fect Level
ED Endocrine	isruptor

United Kingdom (en) Page 16 / 18



acc. to Regulation (EC) No. 1907/2006 (REACH)

Nitromethane ≥98,5 %, for synthesis

article number: 4406



Abbr.	Descriptions of used abbreviations
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
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
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
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
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

United Kingdom (en) Page 17 / 18

acc. to Regulation (EC) No. 1907/2006 (REACH)

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Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). 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
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

Disclaimer

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

United Kingdom (en) Page 18 / 18