according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



Aniline ≥99 %, for synthesis

article number: **9931**Version: **2.0 en**date of compilation: 18.08.2016
Revision: 22.07,2020

Replaces version of: 18.08.2016

Version: (1)

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

1.1 Product identifier

Identification of the substance Aniline
Article number 9931

Registration number (REACH)

It is not required to list the identified uses be-

cause the substance is not subject to registration

according to REACH (< 1 t/a)

 Index No
 612-008-00-7

 EC number
 200-539-3

 CAS number
 62-53-3

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

Identified uses: laboratory chemical

laboratory and analytical use

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

Emergency information service Poison Centre Munich: +49/(0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification acc. to GHS

Section	Hazard class	Hazard class and cat- egory	Hazard state- ment
3.10	acute toxicity (oral)	(Acute Tox. 3)	H301
3.1D	acute toxicity (dermal)	(Acute Tox. 3)	H311
3.1I	acute toxicity (inhal.)	(Acute Tox. 3)	H331
3.3	serious eye damage/eye irritation	(Eye Dam. 1)	H318

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Classification acc. to GHS

Section	Hazard class	Hazard class and cat- egory	Hazard state- ment
3.45	skin sensitisation	(Skin Sens. 1)	H317
3.5	germ cell mutagenicity	(Muta. 2)	H341
3.6	carcinogenicity	(Carc. 2)	H351
3.9	specific target organ toxicity - repeated exposure	(STOT RE 1)	H372
4.1A	hazardous to the aquatic environment - acute hazard	(Aquatic Acute 1)	H400
4.1C	hazardous to the aquatic environment - chronic hazard	(Aquatic Chronic 2)	H411

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS05, GHS06, GHS08, GHS09









Hazard statements

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H341 Suspected of causing genetic defects

H351 Suspected of causing cancer

H372 Causes damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P273 Avoid release to the environment.

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

Precautionary statements - response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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

For professional users only

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

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Symbol(s)









H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

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

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Aminobenzene Index No 612-008-00-7 EC number 200-539-3 CAS number 62-53-3 Molecular formula C_6H_7N

Description of first aid measures

SECTION 4: First aid measures



4.1

Molar mass

General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

Following inhalation

Provide fresh air. Call a physician immediately. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

93,13 ^g/_{mol}

Following skin contact

Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. Call a physician in any case.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Rinse mouth immediately and drink plenty of water. In case of accident or unwellness, seek medical

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advice immediately (show directions for use or safety data sheet if possible).

4.2 Most important symptoms and effects, both acute and delayed

Nausea, Vomiting, Irritant effects, Allergic reactions, Risk of serious damage to eyes, Risk of blindness, Methaemoglobinaemia, Headache, Cardiac arrhythmias, Blood pressure drop, Dyspnoea, Spasms, Cyanosis (blue coloured blood)

4.3 Indication of any immediate medical attention and special treatment needed

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water).

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air, spread along floors and 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

Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

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.

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Advice on how to clean up a spill

Absorb with liquid-binding material (e.g. 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). Handle and open container with care. Clear contaminated areas thoroughly.

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



Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store in a place accessible by authorized persons only.

Incompatible substances or mixtures

Observe hints for combined storage.

- Control of effects
- Protect against external exposure, such as

direct light irradiation

Consideration of other advice

Store locked up.

Ventilation requirements

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

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National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Cou ntr y	Name of agent	CAS No	Nota- tion	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m³]	Source
EU	aniline	62-53-3	skin	IOELV	2	7,74	5	19,35			2019/ 1831/EU

Notation

Ceiling-C

Ceiling value is a limit value above which exposure should not occur A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake skin

through the skin

STEL 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) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 **TWA**

hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

human health values

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	7,7 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	15,4 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
DNEL	4 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects

• environmental values

Endpoint	Threshold level	Environmental compartment	Exposure time
PNEC	0,001 ^{mg} / _l	freshwater	short-term (single instance)
PNEC	0 ^{mg} / _l	marine water	short-term (single instance)
PNEC	2 ^{mg} / _l	sewage treatment plant (STP)	short-term (single instance)
PNEC	0,153 ^{mg} / _{kg}	freshwater sediment	short-term (single instance)
PNEC	0,015 ^{mg} / _{kg}	marine sediment	short-term (single instance)
PNEC	0,033 ^{mg} / _{kg}	soil	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



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hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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 a quide.

· type of material

Butyl caoutchouc (butyl rubber)

material thickness

0,7mm.

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). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

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

Appearance

Physical state liquid

Colour colourless - light brown

Odour disagreeable

Odour threshold No data available

Other physical and chemical parameters

pH (value) 8,8 (water: 36 ^g/_I, 20 °C)

Melting point/freezing point -6,2 °C

Initial boiling point and boiling range 184,4 °C at 1.013 hPa Flash point 76 °C at 1.013 hPa

Evaporation rate no data available

Flammability (solid, gas) not relevant (fluid)

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Explosive limits

• lower explosion limit (LEL) 1,2 vol% (48 g/m³)

• upper explosion limit (UEL) 11 vol% (425 g/m³)

Explosion limits of dust clouds not relevant

Vapour pressure 0,4 hPa at 20 °C

Density $1,02 \, {}^{9}/_{cm^3}$ at 20 ${}^{\circ}\text{C}$

Vapour density 3,22 (air = 1)

Bulk density Not applicable

Relative density Information on this property is not available.

Solubility(ies)

Water solubility 35 g/l at 20 °C

Partition coefficient

n-octanol/water (log KOW) 0,91 (pH value: 7,5, 25 °C) (ECHA)

Soil organic carbon/water (log KOC) 2,114 (ECHA)

Auto-ignition temperature 630 °C at 1.013 hPa - ECHA

Decomposition temperature no data available

Viscosity

• kinematic viscosity $4,265 \, ^{\text{mm}^2} /_{\text{s}}$ at 20 °C • dynamic viscosity $4,35 \, \text{mPa}$ s at 20 °C

Explosive properties Shall not be classified as explosive

Oxidising properties none

9.2 Other information

Temperature class (EU, acc. to ATEX)

T1 (Maximum permissible surface temperature

on the equipment: 450°C)

SECTION 10: Stability and reactivity

10.1 Reactivity

In case of warming: Vapours can 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

Danger of explosion: Oxygen, Nitric acid, Perchlorates, Oxidisers, Nitrate, Exothermic reaction with: Acetic anhydride, Acids

10.4 Conditions to avoid

Direct light irradiation. Keep away from heat.

10.5 Incompatible materials

There is no additional information.

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10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Exposure route	Endpoint	Value	Species	Source
oral	LD50	442 ^{mg} / _{kg}	rat	ECHA

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause sensitization by skin contact.

Summary of evaluation of the CMR properties

Germ cell mutagenicity:

Suspected of causing genetic defects

Carcinogenicity:

Suspected of causing cancer

• Specific target organ toxicity - single exposure

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

• Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

vomiting, nausea

If in eyes

Causes serious eye damage, risk of blindness

If inhaled

cough, Dyspnoea

• If on skin

irritant effects, may cause an allergic skin reaction

Other information

Cardiac arrhythmias, Headache, Blood pressure drop, Methaemoglobinaemia, Cyanosis (blue coloured blood), Spasms

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SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Very toxic to aquatic organisms.

Endpoint	Value	Species	Source	Exposure time
LC50	10,6 ^{mg} / _l	fish	ECHA	96 h
EC50	0,16 ^{mg} / _l	aquatic invertebrates	ECHA	48 h
ErC50	175 ^{mg} / _l	algae	ECHA	72 h

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Endpoint	Value	Species	Source	Exposure time
EC50	0,044 ^{mg} / _l	aquatic invertebrates	ECHA	21 d
NOEC	0,39 ^{mg} / _l	fish	ECHA	32 d
growth (EbCx) 20%	2.800 ^{mg} / _l	microorganisms	ECHA	30 min

12.2 Process of degradability

The substance is readily biodegradable.

Theoretical Oxygen Demand with nitrification: 3,006 ^{mg}/_{mg} Theoretical Oxygen Demand: 2,405 ^{mg}/_{mg} Theoretical Carbon Dioxide: 2,835 ^{mg}/_{mg}

Process	Degradation rate	Time		
oxygen depletion	70 %	15 d		
DOC removal	100 %	5 d		

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW) 0,91 (pH value: 7,5, 25 °C)

BCF 2,6 (ECHA)

12.4 Mobility in soil

 $0,205^{\text{Pa m}^3}/_{\text{mol}}$ at 25 °C Henry's law constant

The Organic Carbon normalised adsorption 2,114

coefficient

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

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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. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

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.

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.

SECTION 14: Transport information

14.1 UN number **1547**

14.2 UN proper shipping name **ANILINE**

Hazardous ingredients Aniline

14.3 Transport hazard class(es)



Class 6.1 (toxic substances)

14.4 Packing group II (substance presenting medium danger)

14.5 Environmental hazards hazardous to the aquatic environment

14.6 Special precautions for user

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

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 1547

Proper shipping name ANILINE

Particulars in the transport document UN1547, ANILINE, 6.1, II, (D/E), environmentally

hazardous

Class 6.1

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Classification code T1
Packing group II

Danger label(s) 6.1 + "fish and tree"



Environmental hazards yes (hazardous to the aquatic environment)

Special provisions (SP) 279, 802(ADN)

Excepted quantities (EQ) E4
Limited quantities (LQ) 100 ml

Transport category (TC) 2
Tunnel restriction code (TRC) D/E
Hazard identification No 60

• International Maritime Dangerous Goods Code (IMDG)

UN number 1547

Proper shipping name ANILINE

Particulars in the shipper's declaration UN1547, ANILINE, 6.1, II, MARINE POLLUTANT

Class 6.1

Marine pollutant yes (P) (hazardous to the aquatic environment)

Packing group II

Danger label(s) 6.1 + "fish and tree"





Special provisions (SP) 279

Excepted quantities (EQ) E4

Limited quantities (LQ) 100 mL

EmS F-A, S-A

Stowage category A

• International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 1547
Proper shipping name Aniline

Particulars in the shipper's declaration UN1547, Aniline, 6.1, II

Class 6.1

Environmental hazards yes (hazardous to the aquatic environment)

Packing group II
Danger label(s) 6.1

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Special provisions (SP) A113 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 Relevant provisions of the European Union (EU)
 - Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) Not listed.
 - Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS) Not listed.
 - Regulation 850/2004/EC on persistent organic pollutants (POP) Not listed.
 - Restrictions according to REACH, Annex XVII

Name of substance	CAS No	Wt%	Type of registration	Conditions of restric- tion	No
Aniline		100	1907/2006/EC annex XVII	R3	3

Legend

- 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

- tricks and jokes,

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
 Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,
 present an aspiration hazard and are labelled with R65 or H304,
 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
 5. Without prejudice to the implementation of other Community provisions relating to the classification, pack-
- aging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
- (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly
- marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil or even sucking the wick of lamps may lead to life-threatening lung damage';
 (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
 (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in
- black opaque containers not exceeding 1 litre by 1 December 2010.

 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier,
- fuel for decordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.

 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

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Name acc. to inventory	CAS No	Wt%	Listed in	Remarks
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 endocrine-related functions in or via the aquatic environment		100	A)	

Legend

Indicative list of the main pollutants

• Restrictions according to REACH, Title VIII

None.

 List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list not listed

Seveso Directive

2012/	2012/18/EU (Seveso III)						
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes			
H2	acute toxic (cat. 2 + cat. 3, inhal.)	50	200	41)			

Notation

Directive 75/324/EEC relating to aerosol dispensers

Filling batch

Deco-Paint Directive (2004/42/EC)

VOC content	100 % 1.020 ^g / _l

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	100 %
VOC content	1.020 ^g / _l

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

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⁻ Category 2, all exposure routes - category 3, inhalation exposure route

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Name acc. to inventory	CAS No	Listed in	Remarks
Substances and preparations, or the breakdown product of such, which have been proved to possess carcinogeni or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- lated functions in or via the aquatic environment	С	A)	

Legend

Indicative list of the main pollutants A)

Regulation 98/2013/EU on the marketing and use of explosives precursors

not listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

not listed

National inventories

Substance is listed in the following national inventories:

Country	National inventories	Status
AU	AICS	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
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

AICS CICR CSCL-ENCS DSL Australian Inventory of Chemical Substances

ECSI

Chemical Inventory of Chemical Substances
Chemical Inventory and Control Regulation
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Versa Existing Chemical Inventory

NATION IN THE INVENTION OF CHEMICAL SUBSTANCES

KECI Korea Existing Chemicals Inventory

NZIOC New Zealand Inventory of Chemicals

PICCS Philippine Inventory of Chemicals and Chemical Substances

REACH Reg. REACH registered substances

TCSI Taiwan Chemical Substance Inventory

Toxic Substance Control Act

Chemical Safety Assessment

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

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SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
1.1	Registration number (REACH): This information is not available.	Registration number (REACH): It is not required to list the identified uses be- cause the substance is not subject to registra- tion according to REACH (< 1 t/a)	yes
2.1	Remarks: For full text of Hazard- and EU Hazard-state- ments: see SECTION 16.		yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
8.1	Occupational exposure limit values (Workplace Exposure Limits): No data available.	Occupational exposure limit values (Workplace Exposure Limits)	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		human health values: change in the listing (table)	yes
8.1		• environmental values: change in the listing (table)	yes
14.3	Transport hazard class(es)	Transport hazard class(es): class 6.1 hazard - toxic substances	yes
14.8	Marine pollutant: yes (hazardous to the aquatic environment)	Marine pollutant: yes (P) (hazardous to the aquatic environment)	yes
14.8		• International Civil Aviation Organization (ICAO-IATA/DGR)	yes
14.8		UN number: 1547	yes
14.8		Proper shipping name: Aniline	yes
14.8		Particulars in the shipper's declaration: UN1547, Aniline, 6.1, II	yes
14.8		Class: 6.1	yes
14.8		Environmental hazards: yes (hazardous to the aquatic environment)	yes
14.8		Packing group: II	yes
14.8		Danger label(s): 6.1	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Special provisions (SP): A113	yes
14.8		Excepted quantities (EQ): E4	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
14.8		Limited quantities (LQ): 1 L	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2019/1831/ EU	Commission Directive establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
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
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
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
IMDG	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
IOELV	indicative occupational exposure limit value
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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration

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Abbr.	Descriptions of used abbreviations
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
SVHC	Substance of Very High Concern
TWA	time-weighted average
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
 Dangerous Goods Regulations (DGR) for the air transport (IATA)
- International Maritime Dangerous Goods Code (IMDG)

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

Code	Text
H301	toxic if swallowed
H311	toxic in contact with skin
H317	may cause an allergic skin reaction
H318	causes serious eye damage
H331	toxic if inhaled
H341	suspected of causing genetic defects
H351	suspected of causing cancer
H372	causes damage to organs through prolonged or repeated exposure
H400	very toxic to aquatic life
H411	toxic to aquatic life with long lasting effects

Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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