

Titanium carbide

Revision Date:	8/14/2019
Date Issued:	8/14/2019

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

Product name Product code CAS REACH No.	Titanium carbide NC-0011 12070-08-5 A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
Identified uses	Laboratory chemicals, Manufacture of substances
Supplier	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D – 74076 Heilbronn Germany
Telephone Fax Emergency telephone Email	+49 (0)7131-89839-0 +49 (0)7131-89839-109 +49 (0)176-84850874 msds@iolitec.de

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULTATION (EC) No 1272/2008)

Flammable solids, Category 2, H228

Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation,

Category 3, H335



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Classification (67/548/EEC or 1999/45/EC)

Flammable solid

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008, GHS)

Pictogram

Signal word



Warning

Hazard statement(s)	
H228	Flammable solid.
H335	May cause respiratory irritation.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/protective clothing/eye protection/f ace protection.
P370 + P378	In case of fire: Use CO2, powder or water spray for extinction

Caution - substance not yet tested completely. Supplemental Hazard Statements none

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s)





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R-phrase(s)		
R 11		Highly flammable.
S-phrase(s)		
S16		Keep away from sources of ignition - No
S 33		smoking. Take precautionary measures against static
0.00		
		discharges.
S 24/25		Avoid contact with skin and eyes.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name Titanium carbide	ContentsHealth(Class)Risk(R/No.)99%Substance not yet fully tested!
Formula TiC	Molecular Weight 59.91 g/mol
4 FIRST AID MEASURES	
Inhalation	Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/ oxygen. Get medical attention.
Ingestion	Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.
Skin	Wash the skin immediately with soap and water.
Eyes	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.



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5 FIRE FIGHTING MEASURES

Extinguishing media	Sand, dry powder, extinguishing media for metal powder fired.
	Do not use water.
Special fire fighting procedures	Use CO2, powder or water spray for
	extinction.
Unusual fire & explosion hazards	Emission of toxic fumes under fire conditions.
	Dust and fumes may be a fire and explosion
	hazard when exposed to high temperatures or
	ignition sources.
Protective measures in fire	Wear self-contained breathing apparatus as
	combustion may produce hazardous fumes.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions during spill	Wear protective clothing and protective mask.
	Avoid inhalation of powder, fume and vapor
	as well as skin or eye contact.
Spill cleanup methods	Avoid contact with skin or inhalation of
	spillage, dust or vapor, Avoid dust formation.
	Collect and reclaim or dispose in sealed
	containers in license waste. Extinguish all
	ignition sources. Avoid sparks, flames, heat
	and smoking. Ventilate.



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7 HANDLING AND STORAGE

Handling precautions

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage precautions

Keep tightly closed.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



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Exposure limits

TiC	mg/m ³
Switzerland OEL	5

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid
Melting Point	~ 3140 °C
Boiling Point	4820 °C
SG/Density	4.93 g/cm ³
Solvability	< 10 mg/l (20°C) in water

10 STABILITY AND REACTIVITY

Stability	No particular stability concerns.
Conditions to avoid	Strong oxidizing agents, acids, bases.
Hazardous Decomposition	Hazardous decomposition products: Carbon
	monoxide, titanium, titanium oxide.

11 TOXICOLOGICAL INFORMATION

Acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available



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Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available **Reproductive toxicity** no data available Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Potential health effects Ingestion May be harmful if swallowed. Inhalation May be harmful if inhaled. Material may be

	irritating to mucous membranes and upper
	respiratory tract.
Skin	May cause irritation.
Eyes	May cause irritation.

Additional Information

RTECS: Not available

Full Data on the toxicity of this product are not available. Hazardous properties cannot be excluded.



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12 ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.
UN 3178
FLAMMABLE SOLID, INORGANIC, N.O.S
TITANIUM CARBIDE
FLAMMABLE SOLID, INORGANIC, N.O.S
TITANIUM CARBIDE
Flammable solid, inorganic, n.o.s., titanium
carbide
4.1
4.1
4.1
III
III
111



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Environmental hazards

ADR/RID:	no
IMDG Marine pollutant:	no
IATA:	no

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

Chemical Safety Assessment

no data available

Country specific information: Germany

WGK 3 - hazardous to waters (self classification)



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16 OTHER INFORMATION

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