

Trodat GmbH
4600 Wels

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

Product identifier 7011 Trodat Ideal Black

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

Identified use none

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Technical information trodat@trodat.net

Safety Data Sheet sdb@chemiebuero.de

SECTION 2: Hazards identification

Emergency Overview

Appearance, Odor: liquid, black, characteristic

OSHA Regulatory Status This product is classified as non-hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

Potential health effects

Potential environmental effects Does not contain any PBT or vPvB substances.

SECTION 3: Composition / Information on ingredients

The product is a mixture.

Range [%]	Substance
30 - < 50	Glycerol CAS: 56-81-5
5 - < 10	Acid Black 2 CAS: 8005-03-6
1 - < 5	Carbon Black CAS: 1333-86-4
< 1	Sodium sulphate CAS: 7757-82-6
< 1	Polyethylene glycol CAS: 25322-68-3
< 0,1	Aniline CAS: 62-53-3

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

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SECTION 4: First aid measures

Description of first aid measures	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Seek medical advice immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media	Extinguish blanket. Carbon dioxide. Foam.
Extinguishing media that must not be used	Full water jet.
Special exposure hazards arising from the substance or preparation itself or combustion products	Risk of formation of toxic pyrolysis products. Carbon monoxide (CO)
Special protective equipment for firefighters	Use self-contained breathing apparatus.
Additional information	Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	High risk of slipping due to leakage/spillage of product. Ensure adequate ventilation. Keep away from all sources of ignition.
Environmental precautions	Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.
Methods and material for containment and cleaning up	Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance with the regulations.

SECTION 7: Handling and storage

Precautions for safe handling	Use only in well-ventilated areas.
Requirements for storage rooms and vessels	Keep only in original container. Prevent penetration into the ground. Provide floor with bunding.
Advice on storage compatibility	Do not store together with oxidizing agents.
Further information on storage conditions	Keep container in a well-ventilated place. Keep container tightly closed. Protect from heat/overheating.

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SECTION 8: Exposure controls / personal protection

Additional advice on system design Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored (US)

Range [%]	Substance
35 - < 50	Glycerol
	CAS: 56-81-5, EINECS/ELINCS: 200-289-5
	Long-term exposure: 15 mg/m ³ , (mist) total dust
1 - < 3	Carbon Black
	CAS: 1333-86-4, EINECS/ELINCS: 215-609-9
	Long-term exposure: 3,5 mg/m ³ , OSHA
< 0,1	Aniline
	CAS: 62-53-3, EINECS/ELINCS: 200-539-3, EU-INDEX: 612-008-00-7
	Long-term exposure: 2 ppm, 7,6 mg/m ³ , ACGIH

Respiratory protection Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, combination filter A-P2.

Hand protection Butyl rubber, >480 min (EN 374).
The details concerned are recommendations. Please contact the glove supplier for further information.

Eye protection If there is a risk of splashing:
Safety glasses.

Skin protection light protective clothing

General protective measures Avoid contact with eyes and skin.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Hygiene measures Take off contaminated clothing and wash before reuse.
Do not eat, drink or smoke when using this product.
Wash face and/or hands before break and end of work.
Use barrier skin cream.

Delimitation and monitoring of the environmental exposition Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

Form	liquid
Color	black
Odor	characteristic
pH-value	not determined
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	> 146
Flammability [°C]	ca. 225
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	ca. 0,01 (20 °C)
Density [g/ml]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	completely miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

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SECTION 10: Stability and reactivity

Reactivity	No dangerous reactions known if used as directed.
Chemical stability	Stable under normal ambient conditions (ambient temperature).
Possibility of hazardous reactions	Reactions with oxidizing agents.
Conditions to avoid	See SECTION 7.2.
Incompatible materials	No information available.
Hazardous decomposition products	No hazardous decomposition products known. In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Range [%]	Substance
< 0,1	Aniline, CAS: 62-53-3
	LD50, dermal, Rabbit: 837 mg/kg (GESTIS).
	LD50, oral, Rat: 250 mg/kg (GESTIS).
	LD50, oral, Rat: 200-2000 mg/kg (IUCLID).
30 - < 50	Glycerol, CAS: 56-81-5
	LD50, dermal, Rabbit: > 18700 mg/kg (IUCLID).
	LD50, oral, Rat: 12600 mg/kg (IUCLID).

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	Toxicological data of complete product are not available. No classification on the basis of the calculation procedure of the preparation directive.

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SECTION 12: Ecological information

Toxicity

Range [%]	Substance
< 0,1	Aniline, CAS: 62-53-3
	LC50, (96h), fish: 57,6 mg/l (GESTIS).
	LC50, (48h), Daphnia sp.: 0,193 mg/l (GESTIS).
1 - < 5	EC50, (72h), Algae: 20 mg/l (GESTIS).
	Carbon Black, CAS: 1333-86-4
	EC50, (24h), Daphnia magna: >5600 mg/L (IUCLID).
30 - < 50	LC0, (96h), Brachidanio rerio: 1000 mg/L (IUCLID).
	Glycerol, CAS: 56-81-5
	LC50, (24h), Carassius auratus: > 5000 mg/l.
	EC50, (72h), Bacteria: > 10000 mg/l.
	EC50, (48h), Algae: > 2900 mg/l.
	EC50, (24h), Daphnia magna: > 10000 mg/l.

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Bacteria toxicity not determined

Biological degradability not determined

COD not determined

BOD 5 not determined

Other adverse effects Ecological data of complete product are not available.
No classification on the basis of the calculation procedure of the preparation directive.

SECTION 13: Disposal considerations

Product	Coordinate disposal with the authorities if necessary. Disposal in an incineration plant in accordance with the regulations of the local authorities.
Contaminated packaging	Packaging that cannot be cleaned should be disposed of as for product. Untampered packaging may be taken for recycling.
RCRA Hazard Class (40CFR 261)	Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

SECTION 14: Transport information

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"
DOT Road Shipment Information (49 CFR)	NOT CLASSIFIED AS "DANGEROUS GOODS"

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SECTION 15: Regulatory information**US Regulations**

National regulations	29 CFR 1910.1200, ANSI Z400.1-2010, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65
- SARA, 302	One or some ingredient(s) are listed under this regulation. (Aniline)
- SARA, 311	This product is not classified as hazardous under SARA 311.
- SARA, 313	This product contain one ingredient regulated under this list(40 CFR part 372.65): Aniline
- CA Proposition 65	Some chemical substances Carbon Black, Aniline in this material are named in California-P65 list.
- TSCA	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.
- FDA	not applicable
American Conference of Governmental Industrial Hygienists - ACGIH	Carbon Black - A4: Not classifiable as a human carcinogen. Aniline - A3: Confirmed Animal Carcinogen
International Agency for Research on Cancer IARC	IARC: Group 2B carcinogen Carbon Black
National Toxicology Program - NTP	Glycerol (Testing Status) Aniline (Testing Status)
HAP-VOC	HAP's-content: Aniline
Transport-regulations	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
Other Right to Know Laws	

EC Regulations

	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
Hazard pictograms	none
Signal word	none
Hazard statements	none
Precautionary statements	none
Labelling	
Hazard symbols	none
R-phrases	none
S-phrases	none
Special labelling	none

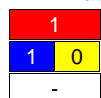
SECTION 16: Other information

Observe employment restrictions for people none

HMIS Ratings

HEALTH	1*	1* - Slight chronic Hazard
FLAMMABILITY	1	1 - Slight Hazard
REACTIVITY	0	0 - Minimal Hazard
PERSONAL PROTECTION	X	X - Personal protection rating to be supplied by user depending on use conditions

NFPA Ratings

	TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 1* - Slight chronic Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard BOTTOM, SPECIAL NOTICE: -
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Modified position none

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Key / Legende:

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; EINCES = European Inventory of Existing Commercial Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit; TSCA = Toxic Substances Control Act



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