

TJ-AB-BLK-P - TJ Absolute Black PLUS

Safety data sheet

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

1.1. Product identifier

Code: TJ-AB-BLK-P
Product name: TJ Absolute Black PLUS

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use: INK FOR INK JET

Identified Uses	Industrial	Professional	Consumer
Inks	✓	✓	-
Uses Advised Against			
Do not use for purposes other than those specified			

1.3. Details of the supplier of the safety data sheet

Name: Thallosjet
Full address: Via Carlo Viola 78
11026 Pont Saint Martin (AO)
Italia
District and Country: Tel. +39 0125 1892626
Fax +39 0125 1891995
e-mail address of the competent person responsible for the Safety Data Sheet: info@thallosjet.com

1.4. Emergency telephone number

For urgent inquiries refer to: +39 0125 1892626

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to EC Regulation 1907/2006 and subsequent amendments.
Hazard classification and indication:

2.2. Label elements.

Hazard pictograms: --

Signal words: --

Thallosjet s.r.l.

Revision nr. 1

Dated 18/05/2016

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 2/12

Hazard statements:

EUH210 Safety data sheet available on request.

Precautionary statements:

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2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
2-PYRROLIDONE		
CAS. 616-45-5	1 - 10	Eye Irrit. 2 H319
EC. 210-483-1		
INDEX. -		
Reg. no. 01-2119475471-37-xxxx		
2,2'-(METHYLIMINO)DIETHANOL		
CAS. 105-59-9	1 - 10	Eye Irrit. 2 H319
EC. 203-312-7		
INDEX. 603-079-00-5		
Reg. no. 01-2119488970-24-xxxx		

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 3/12

medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 4/12

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear 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. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Thallosjet s.r.l.

Revision nr. 1

Dated 18/05/2016

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 5/12

2-PYRROLIDONE

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,5	mg/l
Normal value in marine water	0,05	mg/l
Normal value for fresh water sediment	0,4205	mg/kg
Normal value for marine water sediment	NEA	
Normal value for water, intermittent release	0,5	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,0612	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local
Oral.	VND	33,3 mg/kg bw/d	VND	5,2 mg/kg bw/d		
Inhalation.			VND	17,1 mg/m3		VND
Skin.	VND	167 mg/kg bw/d	VND	6 mg/kg bw/d	VND	277 mg/kg bw/d

2,2'-(METHYLIMINO) DIETHANOL

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,004	mg/l
Normal value for fresh water sediment	0,78	mg/kg
Normal value for marine water sediment	0,035	mg/kg
Normal value for water, intermittent release	1	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,097	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local
Oral.			VND	1,9 mg/kg bw/d		
Inhalation.			VND	6,5 mg/m3		VND

Thallosjet s.r.l.

Revision nr. 1

Dated 18/05/2016

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 6/12

Skin.	V N D	9,4 mg/kg bw/d	VND
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Legend:

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	black
Odour	characteristic
Odour threshold.	Not available.
pH.	8,30 +/- 0,05
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	> 100 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,100 +/- 0,05
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available.

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 7/12

Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

VOC (Directive 1999/13/EC) :	< 0.01 %
VOC (volatile carbon) :	< 0.01 %

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

TJ-AB-BLK-P - TJ Absolute Black PLUS

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

2-PYRROLIDONE

LD50 (Oral). > 2000 mg/kg Rat (Sprague-Dawley) - OECD Guideline 401

LD50 (Dermal). > 2000 mg/kg Rabbit (New Zealand White) - OECD Guideline 402

2,2'-(METHYLIMINO)DIETHANOL

LD50 (Oral). 1945 mg/kg Rat (Sprague-Dawley) - OECD Guideline 401

LD50 (Dermal). 5990 mg/kg Rabbit

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity.

2-PYRROLIDONE

LC50 - for Fish.

> 4600 mg/l/96h Danio rerio - OECD Guideline 203

EC50 - for Crustacea.

> 500 mg/l/48h Daphnia magna - EEC directive 79/831 EEC, Annex V, C2

EC50 - for Algae / Aquatic Plants.

> 500 mg/l/72h Desmodium subspicatum - German standard DIN 38412 Part 9

2,2'-(METHYLIMINO)DIETHANOL

L

LC50 - for Fish.

1170 mg/l/96h OECD Guideline 203

EC50 - for Crustacea.

230 mg/l/48h Daphnia magna - OECD Guideline 202

EC50 - for Algae / Aquatic Plants.

141 mg/l/72h Skeletonema costatum - ISO 10253

12.2. Persistence and degradability.

2-PYRROLIDONE

Solubility in water.

> 10000 mg/l

Rapidly biodegradable.

2,2'-(METHYLIMINO)DIETHANOL

L

Rapidly biodegradable.

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 9/12

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

14.1. UN number.

Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Thallosjet s.r.l.

Revision nr. 1

Dated 18/05/2016

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 10/12

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

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

Seveso category. None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

None.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

Thallosjet s.r.l.

Revision nr. 1

Dated 18/05/2016

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 11/12

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Information not available.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Irrit. 2	Eye irritation, category 2
H319	Causes serious eye irritation.
EUH210	Safety data sheet available on request.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit

Thallosjet s.r.l.

Revision nr. 1

Dated 18/05/2016

TJ-AB-BLK-P - TJ Absolute Black PLUS

Page n. 12/12

- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.