

Reference: **POWDER with DiNitrotoluene**

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Date of creation: 20 January 2001

Date of revision: 24 September 2014 Index: e

According to Directive 2001/58/CE, decree of 09/11/2004 and article 31 of 1907/2006/EC.

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

PRODUCT NAME	RELATED INDICES
SINGLE-BASE GUNPOWDERS WITH DiNitroToluene	-Tubal powders: 2000, 3000, 5000, 7000, 8000 -Flake powder: A0 -Granular powders: Prima Lowsonic, Prima V, Granular V, Prima S, Granular S, GM3, D1, Granular, GIRO powders, Prima F24, Prima F28, Prima F30

- SUPPLIER : NOBELSPORT
 12 route du Beuzit
 29590 PONT de BUIS
 FRANCE
 Telephone : 02.98.86.42.42
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- EMERGENCY TELEPHONE NUMBER (INRS) : 01.45.42.59.59

2. HAZARDS IDENTIFICATION

According to Directive 67/548/EEC



E Explosive

R2 Risk of explosion by shock, friction, fire or other sources of ignition

According to CLP regulation 1272/2008



H203 Explosive; fire, blast or projection hazard

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- Powder behaviour in its packaging:

³⁵₁₇ Fire hazard with minor blast and projection hazard, but no mass explosion hazard. Be especially careful of the size of the thermal flow and of nitrous vapours.

- Powder behaviour out of its packaging:

³⁵₁₇ The powder may progress from deflagration to detonation in a confined setting. If necessary, contact the manufacturer as indicated in § 16 herein.

3. COMPOSITION - INFORMATION ON INGREDIENTS

Components	CAS No.	% of the active mass	EINECS ELINCS	Directive 67/548/EEC		CLP
				Symbol	R Phrase	H Code
Nitrocellulose	9004-70-0	> 84%	-	E	R3	H201
Diphenylamine	122-39-45	Approx. 1%	204-539-4	T and N	R23/24/25-33-50/53	H301-H311-H331-H373-H410
Dinitrotoluene	121-14-2	2 to 14%	204-450-0	T and N	R23/24/25-45-48/22-50/53-62-68	H301-H311-H331-H341-H350-H361f-H373-H411

4. FIRST AID MEASURES

- After accidental inhalation of nitrous vapours possibly caused by product decomposition, the injured person is to be completely immobilised, oxygen therapy to be administered by the emergency medical services.
- If illness occurs seek immediate medical assistance from a doctor.

5. FIREFIGHTING MEASURES

- Extinguishing media:

³⁵₁₇ Saturate with copious amounts of water.

³⁵₁₇ Do not use smother type extinguishing media (carbon dioxide, foam, general-purpose powder, etc), due to the oxygen content of the nitrocellulose.

³⁵₁₇ After extinction, the material may remain unstable and a risk of self-ignition persists. Ensure that residual matter is soaked.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:

³⁵₁₇Dampen the product first and then collect while wearing suitable personal protective equipment (see § 8).

- Environmental precautions:

³⁵₁₇Do not leave the spilt product lying around if the packaging is accidentally opened.

³⁵₁₇Do not remove to rubbish dumps or drains, and ensure the product is identified on the container.

- Clean-up:

³⁵₁₇Soak the product with water to reduce the risk of combustion.

³⁵₁₇Collect using tools as recommended in § 7 and follow the safe-handling procedures for explosive substances.

³⁵₁₇Keep the product in packaging recommended by NOBELSPORT (see § 14).

³⁵₁₇Follow the disposal recommendations in § 13.

³⁵₁₇Contact NOBELSPORT if specific difficulties arise.

7. HANDLING AND STORAGE

- Handling:

Technical measures:

³⁵₁₇Keep the product away from heat, open flames and sparks, prevent any friction, any impacts and protect against any electrostatic discharge hazards during handling.

³⁵₁₇Position a screen between the operator and the product so as to reduce heat flow to the workstation in the event of the product catching fire.

Precautions:

³⁵₁₇No smoking.

³⁵₁₇Prevent the build-up of dust.

³⁵₁₇Use tools made of non-ferrous materials such as copper, brass, wood, etc.

³⁵₁₇Make sure the facility is properly earthed.

³⁵₁₇Handle using dustproof equipment. Do not permit the use of hollow bodies.

Usage precautions:

³⁵₁₇Keep the minimum amount of product in the workshops.

³⁵₁₇This powder can easily go from combustion to a violent decomposition regime and special precautions must be taken during its use:

- Use hoppers with maximum opening surface area and a central chimney to allow gases to escape in the event it catches fire.

- A slide valve, if used, must be disconnected from the hopper.

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- Use dust supply lines that have openings (and which can be closed by a cloth or a lightweight plastic) to prevent confinement and avoid exceeding critical heights (see the results of SNPE test 60 in the "POWDER SAFETY TESTS" table).
- Do not put more than 500 g of powder on the machine.

³⁵₁₇Avoid contact with incompatible matter (see § 10).

- **Storage:**

Technical measures:

³⁵₁₇Discard faulty packaging.

³⁵₁₇Do not open the packaging or remove items from the packaging in the storage area.

Conditions of storage:

³⁵₁₇The packages must be stacked in a stable manner.

³⁵₁₇Product may be stored in crates or drums up to 1.60 metres high measured from the storage floor level, when handled by hand or using appropriate mechanical means, the stacks must not exceed a height of three metres.

³⁵₁₇Store in a cool and well ventilated area.

Incompatible materials:

³⁵₁₇Do not store with non-class 1 products or with class 1 products not in compatibility group C or S (see § 10).

Packaging materials:

³⁵₁₇Store in packaging recommended by NOBELSPORT at the specified maximum net masses (see § 14).

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Personal protective equipment:

- Body: antistatic and fireproof protective clothing.
- Hands: leather gloves.
- Face: safety glasses, face shield.

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9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical condition : solid.
- Form : Tubular, flake or granule
- Odour : odourless.

- Solubility:
 - . Insoluble in water and hydrocarbons.
 - . Soluble in solvents: ketones, esters, alcohols.
- The results of the powder safety tests are included on the last page.

10. STABILITY AND REACTIVITYStability:

- Stable when stored and handled according to the recommendations in § 7.

Conditions to avoid:

- Avoid exposure to heat, impacts and friction.

Materials to avoid:

- Avoid contact with alkalis, acids, amines and oxidising agents.

Hazardous decomposition products:

- Nitrogen oxides (nitrous vapours).

11. TOXICOLOGICAL INFORMATION

- Low toxicity as is.
- In the event of a fire, risk of nitrous vapours being released: if illness occurs, seek medical advice.

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12. ECOLOGICAL INFORMATION

Dispersion of the product into the natural environment does not result in any specific hazard, since the product is stable (see § 10 - Stability) and insoluble in water.

13. DISPOSAL CONSIDERATIONSWaste and residues:

- The product must not be dumped. It must be collected for removal according to the recommendations in § 6 and then either stored under surveillance in accordance with the recommendations § 7 or destroyed in an area assigned for its destruction, by burning, with specially designed equipment and in a thin layer.
- Do not mix with other incompatible residues (see § 10).
- You are advised to contact NOBELSPORT if difficulties arise.
- Always comply with applicable environmental regulations.

Contaminated packaging:

- Depending on its condition, the packaging may be re-used to hold the same product or is to be destroyed in accordance with the instructions given above for the disposal of waste and residues.

14. TRANSPORT INFORMATIONClassification for transport in approved packaging:

INERIS transport classification certificates No. Ag P 51/35 dated 14/11/2007

- | | |
|---------------------------------------|--|
| 1. - Accreditation certificate No. | : BVT ABZAC No. 195138 complt. B
or BVT VAN LEER 1033/48
or VICMAR no. 31/E47/05/0003/01-C |
| - Outer packaging | : 45-litre cylindrical cardboard drum |
| - Interior packaging | : 1 polyethylene bag |
| - Max. net mass | : 20, 15 or 10 kg. |
| - Proper shipping name | : Smokeless powder |
| - UN hazard division | : 1.3.C |
| - ADR and RID road and rail transport | : UN Number 0161 |
| - IMDG maritime transport | : UN Number 0161 |
| - ICAO/IATA air transport | : Forbidden |
| 2. - Accreditation certificate No. | : BVT 169715 or 169713 OTOR |
| - Outer packaging | : Cardboard case 4 G |

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- | | |
|---------------------------------------|--------------------------------------|
| - Interior packaging | : Cardboard canisters |
| - Max. net mass | : 20 or 10 kg. |
| - Proper shipping name | : Smokeless powder |
| - UN hazard division | : 1.3.C |
| - ADR and RID road and rail transport | : UN Number 0161 |
| - IMDG maritime transport | : UN Number 0161 |
| - ICAO/IATA air transport | : Forbidden |
|
 | |
| 3. - Accreditation certificate No. | : B.V.T. 249201 dated 05/02/1991 |
| - Outer packaging | : Cardboard case 4 G |
| - Intermediate packaging | : 59 cardboard tubes |
| - Interior packaging | : 1 polyethylene sachet (per tube) |
| - Max. net mass | : 2.950 kg. |
| - Proper shipping name | : EXPLOSIVE SUBSTANCES, N.S.A. |
| - UN hazard division | : 1.4.S |
| - ADR and RID road and rail transport | : UN Number 0481 |
| - IMDG maritime transport | : UN Number 0481 |
| - ICAO/IATA air transport | : UN Number 0481. |
|
 | |
| 4. - Accreditation certificate No. | : B.V.T. 36784 index 0 of 21/10/2011 |
| - Outer packaging | : Cardboard case 4 G |
| - Intermediate packaging | : 1-litre plastic canisters |
| - Interior packaging | : Corrugated cardboard panels |
| - Max. net mass | : 10 kg. |
| - Proper shipping name | : EXPLOSIVE SUBSTANCES, N.S.A. |
| - UN hazard division | : 1.4.C |
| - ADR and RID road and rail transport | : UN Number 0509 |
| - IMDG maritime transport | : UN Number 0509 |
| - ICAO/IATA air transport | : UN Number 0509 |

15. REGULATORY INFORMATION

French regulations

Decree No. 2013-973 of the 29 October 2013 and interdepartmental directive of the 20/04/2007 on the general health and safety rules for pyrotechnical establishments.

Council Directive 93/15/EEC of 5 April 1993 on the harmonisation of the provisions relating to the placing on the market and supervision of explosives for civil uses.

Marking according to EEC and CLP directives:

The product is classified and identified in accordance with European Community directives and respective national laws: 2004/73/EC, 2006/8/EC and 1272/2008

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16. OTHER INFORMATION/WARNING

This notice is provided as a complement to, but not as a replacement for the technical instructions for use. The information it contains is based on our present knowledge of the product on the date shown, and is provided to the best of our knowledge. Users' attention is further drawn to possible risks arising when the product is not used for its intended purpose.

Users are solely responsible for:

- establishing safety procedures to cover all scenarios in which the product might be used with consideration afforded to the notice herein,*
- transmitting to all users and operators the appropriate safety data and the hazard warnings indicated in any documentary material relating to use of the product.*

This list should not be deemed to be exhaustive and does not release the recipients thereof from their duties under the regulations governing their line of work.

NOBELSPORT's technical support departments are available to assist users in any possible way and to the fullest extent of their knowledge.