

VihtaVuori

VihtaVuori N100 & N300 Series

SAFETY DATA SHEET

March 2015

The following **N100, N300, 2N and 3N** series powders are manufactured by VihtaVuori® and distributed by Hodgdon Powder Company.

20N29

3N37

3N38

N105

N110

N133

N135

N140

N150

N160

N165

N310

N320

N32C

N340

N350

Date:18.2.2014

Former date:

Trade name / Substance name: N-POWDER

X SAFETY DATA SHEET

(INFORMATION FORM FOR CHEMICALS DATA)

(*) concerns only chemical notification

(**) either 3.1 or 3.2 must be filled

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name / Substance name

N-POWDER

Company product code

N100-, N300-, N400-, 2N-, 3N-series, N32C, 20N29, 24N41, JK6-powders
B7T-, and B19T-large caliber powders

REACH Registration number

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

The uses of the chemical

Propellant for ammunition

Classification of economic activities (NACE) (*)

24610

Use categories (UC62) (*)

TOL1:296KT1:36

The chemical can be used by the general public (*)

The chemical is used by the general public only (*)

1.3 Details of the supplier of the Safety Data Sheet

Supplier (manufacturer, importer, only representative, downstream user, distributor)

Responsible for placing a chemical on the market in Finland (*)

Nammo Vihtavuori Oy

Street address

Ruutitehtaantie 80

Postcode and post office

41330 Vihtavuori

Post-office box

Postcode and post office

Telephone number

+358 14 3779 211

Telefax

+358 14 3779 613

E-mail address

Finnish Business ID (Y code) (*)

FI14922233

1.4 Emergency telephone number

Telephone number +358-14-3779211

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Explosive; fire, blast or projection hazard.

Trade name / Substance name: N-POWDER

1272/2008 (CLP)
 Expl. 1.3, H203
 67/548/EEC-1999/45/EC
 E, Xn; R1

2.2 Label elements

Powder, smokeless
 1272/2008 (CLP)
 GHS01



Signal word DANGER

P 201, Keep away from heat / sparks / open flames / hot surfaces. –No smoking.

P 240, Ground / bond container and receiving equipment.

P 250, Do not subject to grinding / shock / friction.

P 370+ P 380, In case of fire: Evacuate area.

P 373, DO NOT fight fire when it reaches explosives.

P 401 Store in original container. Keep in a dry, cool place. Incompatible with acids and bases.

P 501, Dispose of contents/container in accordance with local / regional / national / international regulations.

2.3 Other hazards**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS****3.1 Substances (**)**

Main constituent / constituent	CAS-, EC- or index number	Concentration

3.2 Mixtures ()**

Substance name	CAS-, EC- or index number	REACH Registration No.	Concentration	Classification
Nitrosellulose (>12.6%)	603-037-00-6		< 99 %	Expl. 1.1, H201
Diphenylamine	612-026-00-5		< 2 %	Acute Tox. 3, H301+H311+H331; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410;
Diethyldiphenylurea (Centralite I)	85-98-3		< 3 %	Acute Tox. 4, H302; Aquatic Chronic 3, H412

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation: Fresh air, Rinse nose, mouth and throat with water.
 Skin contact: Wash with soap and water.
 Eye contact: Rinse carefully with water.

Trade name / Substance name: N-POWDER

Ingestion: Rinse the mouth with water. Give a few glasses of milk or water if the person is fully conscious and try to cause vomiting.

4.2	Most important symptoms and effects, both acute and delayed
	The most important known symptoms and effect specified in the labeling.
4.3	Indication of any immediate medical attention and special treatment needed
	Treatment: according to symptoms, no known specific antidote.
SECTION 5: FIREFIGHTING MEASURES	
5.1	Extinguishing media
	Recommended water. Also other endothermic extinguishing media are possible.
5.2	Special hazards arising from the substance or mixture
	In case of fire and/or explosion do not breathe fumes which may contains nitrogen oxides (NOx). Evacuate personnel to safe areas.
5.3	Advice for firefighters
	Can only be extinguished by effective cooling. Burns without auxiliary oxygen. Very fast, deflagration like burning, may turn to explosion. At risk of fire people shall be evacuated to a safe distance
SECTION 6: ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and emergency procedures
	Avoid contact with skin and eyes. Use personal protective equipment in case of contact and/or inhalation of the product.
6.2	Environmental precautions
	Prevent the product from entering drains.
6.3	Methods and material for containment and cleaning up
	Avoid creating dust by moistening the product, sweep up and put in labelled containers. Should be destroyed by authorized personnel in an approved location. NOTE! Explosives can detonate.
6.4	Reference to other sections
SECTION 7: HANDLING AND STORAGE	
7.1	Precautions for safe handling
	Equipment must be adapted to work with explosives. Avoid spillage.
7.2	Conditions for safe storage, including any incompatibilities
	Store in original container. Keep in a dry, cool place. Incompatible with acids and bases.
7.3	Specific end use(s)
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1	Control parameters
	National occupational exposure limit values
	Threshold limit value is missing. A guideline value of dust 10 mg/m ³ can be used.
	Other limit values
	DNEL
	PNEC
8.2	Exposure controls
	Appropriate engineering controls

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Workplace and methods should be developed to prevent contact with the product.

Eye / face protection

Wear safety glasses when product can irritate eyes.

Skin protection

Flame retardant treated clothing should be used when working with the product.

Hand protection

Rubber gloves in case of direct contact can irritate eyes.

Respiratory protection

Use respiratory equipment with particle filter P3

Thermal hazards**Environmental exposure controls**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Information on physical and chemical properties	
Appearance	Cylindar grains, flakes
Odour	Odourless
Odour threshold	
pH	
Melting point/freezing point	
Initial boiling point and boiling range	
Flash point	
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability or explosive limits	No. During heating for a longer periods decomposition can occur.
Vapour pressure	
Vapour density	
Relative density	350-1000 g / cm ³
Solubility(ies)	Soluble in ketones and esters.
Partition coefficient: n-octanol/water	
Auto-ignition temperature	>175 °C
Decomposition temperature	
Viscosity	
Explosive properties	Yes
Oxidising properties	No

9.2 Other information	
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SECTION 10: STABILITY AND REACTIVITY	
10.1	Reactivity This product is not reactive
10.2	Chemical stability This product is chemically stable
10.3	Possibility of hazardous reactions
10.4	Conditions to avoid Shock, friction, fire, heating or electrostatic charges
10.5	Incompatible materials Strong oxidizers and strong bases
10.3	Hazardous decomposition products Nitrous gases formed during heating and fire.

SECTION 11: TOXICOLOGICAL INFORMATION	
11.1	Information on toxicological effects
	Acute toxicity Information is missing
	Skin corrosion/irritation -
	Serious eye damage/irritation Dust may cause eye irritation
	Respiratory or skin sensitisation -
	Germ cell mutagenicity -
	Carcinogenicity -
	Reproductive toxicity -
	STOT-single exposure -
	STOT-repeated exposure -
	Aspiration hazard -
	Other information -

SECTION 12: ECOLOGICAL INFORMATION	
12.1	Toxicity Information is missing
12.2	Persistence and degradability

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Information is missing

12.3 Bioaccumulative potential

Information is missing

12.4 Mobility in soil

Information is missing

12.5 Results of PBT and vPvB assessment

Information is missing

12.6 Other adverse effects

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SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Packaging should be handled as dangerous goods. Waste and contaminated packaging should be disposed as waste explosives. When heated, there is risk of explosion. Disposal must be carried out at an intended place and by trained personnel.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number**

0161

14.2 UN proper shipping name

Powder, smokeless

14.3 Transport hazard class(es)

1.3C

14.4 Packing group

II

14.5 Environmental hazards

-

14.6 Special precautions for user

-

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

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SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

European Council Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. EU Regulation (EC) No 1907/2006 REACH.

15.2 Chemical safety assessment**SECTION 16: OTHER INFORMATION****Indication of changes****Abbreviations and acronyms****Key literature references and sources for data**

Trade name / Substance name: N-POWDER

Used method in evaluating classification

List of relevant R-and S-phrases or/and safety and precautionary statements

- R1 Explosive when dry.
- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R22 Harmful if swallowed.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R33 Danger of cumulative effects.
- R50 Very toxic to aquatic organisms.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- S1/2 Keep locked-up and out of reach of children.
- S35 This material and its container must be disposed of in a safe way.
- S36/37 Wear suitable protective clothing and gloves.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

H203 Explosive substances, mixtures and articles, Division 1.3. Expl. 1.3

H228 Flammable solid

H301 Toxic if swallowed

H311 Toxic in contact with skin

H335 May cause respiratory irritation

H400 Very toxic to aquatic life

Training advice for workers