

SDS REACH and CLP GHS regulations EC N°1907/2006 - 1272/2008

1. IDENTIFICATION OF THE MATERIAL AND OF THE COMPANY

Trade name/Product name: NOVINOX PAT15

Type of use: anticorrosive pigment for: paints and inks (solid corrosive inhibitor). (See section 16)

Manufacturer: SOCIETE NOUVELLE DES COULEURS ZINCIQUES

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2. HAZARD IDENTIFICATION

Product description: This product NOVINOX PAT15 is an alkaline earth phosphate, a non-hazardous substance mixed with an impurity: zinc phosphate (range: 0-2.5%), due to the manufacturing process.

Classification according to CLP/GHS 1272/2008/EC:

▽ This product NOVINOX PAT15 is an alkaline earth phosphate which may have an impurity: zinc phosphate (<2.5%). This impurity Zinc Phosphate presents an acute and chronic hazard to the aquatic environment. The product classification of NOVINOX PAT15 results from the application of regulation (EC) 1272/2008 and GHS criteria for mixture. This NOVINOX PAT15 is classified in category 3 acute (GHS) and chronic toxic to the aquatic environment (because traces of zinc phosphate may be present in this product). No significant effects were reported for human health.

▽ **Labelling according to CLP/GHS 1272/2008/EC** H412 P273 P501

Hazard:	Harmful, to aquatic life with long lasting effects (H412)
Prudence:	Avoid release to the environment (P273)
Elimination:	Dispose of contents/container as hazardous waste in a disposal facility approved accordance with national regulations (P501).

Other Hazards: No significant effects were reported for human health.

3. COMPOSITION/DATA ON COMPONENTS

▽ **Chemical composition** : Alkaline earth phosphate, mono-constituent substance.

Hazardous components or impurities: GHS - CLP 1272/2008/EC regulation

Impurity

<u>CAS N°</u>	<u>Annex VI Index N°</u>	<u>EINECS N°</u>	<u>Name</u>	<u>%</u>	<u>Phrases</u>	<u>Symbol</u>
7779-90-0	030-011-00-6	231-944-3	Zn ₃ (PO ₄) ₂ , xH ₂ O TriZinc bis(Orthophosphate)	<2,5	H400 H410 (1)	GHS09 ☐WARNING

▽ **Environmental risk:** Zinc phosphate is very dangerous to the aquatic organisms. It is strongly recommended to forbid dispersion of this chemical in the environment. This substance may cause long term adverse effects in the aquatic environment.

Zinc Phosphate **M** factor = 1

4. FIRST AID AND MEASURES

Description of first aid measures: Get immediately medical attention.

Specific measure: No specific requirements.

After inhalation: Remove from exposure area to fresh air. Seek medical attention. If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing.

After skin contact: Wash with mild soap and water until no evidence of product remains. Thoroughly clean and dry contaminated clothing and shoes before reuse.

After eyes contact: Immediately flush eyes with water for at least 15 min, until no evidence of chemical remains. Seek medical attention if necessary.

After ingestion: Rinse mouth with water. If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Immediately get medical attention. Treat symptomatically and supportively. This product may induce intestinal troubles.

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

NOTE TO THE PHYSICIAN: For ingestion, consider gastric lavage.

ANTIDOTE: Calcium gluconate, intravenous.

5. FIRE FIGHTING MEASURES

Suitable extinguishing means: No restriction for neighbouring fire.

▽ **Specific hazards:** None. (Non-combustible material). Do not let this substance and its solutions contaminate the environment.

Advice for firefighters

Special personal protection equipment: Wear an appropriate air respirator and appropriate equipment.

Conduct of fire fighting: No specific requirement (not flammable, fire retardant). Avoid creating dust under nuisance dust permitted limits. In case of fire, residues may contaminate the environment and have to be collected and stocked in special containers. Contaminated wastes have to be collected by a licensed contractor. Dike and contain fire-control water for later disposal. Do not let contaminated water contaminate the environment. Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

Additional information: Contaminated residues must be disposed of according to local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal protective measures: If dusting (upper permitted limits) mask with a high-efficiency particulate filter and with a full face-piece. Avoid disperse and walk through spilled on the ground.

Environmental protection conduct: Do not sweep or wash in public stretches of water or unknown discharge NOVINOX PAT15, in respect with local regulations. To prevent dispersion on the floor and later in the environment, it is highly recommended to forbid walking on the product spillage. Do not discharge contaminated water in public sewage.

Methods and material for containment and cleaning up

▽ **Spill and leak procedure:** Avoid/minimise residues and waste production according to local regulations. Use wet clean up technique to avoid dusting. Keep covered material in watertight and closed containers. Suck up avoiding dust (vacuum or wet device). Eliminate residues according to local regulations (dangerous waste).

Soil: Remove containers from spill area. In large spills, rescue must be in the same direction as the wind and prohibit the formation of dust clouds. Collect spills on the floor; eliminate waste according with national regulations.

Water: Not contaminate the environment. Seal the manhole sewer, prohibit access to water contaminated with this product in water systems and contain the water in area water resistant for removal by an authorized company.

7. HANDLING AND STORAGE

Precautions for safe handling:

EC:

Handling: Avoid breathing dust and walk in the fallout on the ground. Keep away from food stuff. Use adequate exhaust ventilation to maintain nuisance dust below permitted limits. Prohibit any discharge into water systems and emission in the environment.

Protection against fire and explosion: The product is non-flammable. Must guard against electrostatic discharge in hazardous area.

7. HANDLING AND STORAGE (continued)

Conditions for safe storage, including any incompatibilities:

Storage conditions: store under clean, dry conditions at room temperature. Keep containers tightly sealed.

Material/Chemical incompatibility: none. However, it is recommended to store this material away from acids alkali and ammonia (solubility in these solvents).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PROFESSIONAL EXPOSURE CONTROL

EXPOSURE LIMIT VALUE (Occupational Exposure Limits) :

Engineering controls: no specific exposure limits established for substance (OSHA, ACGIH, NIOSH). Cf §7.

Parameters of exposure controls: (VME 8 hours = TWA, TLV= limit valour)

<u>Designation</u> <u>Substance</u>	<u>Type of Data</u>	<u>Unit</u>
Total dust	OSHA PEL	15 mg/m ³ TWA
	ACGIH TLV	10 mg/m ³ (inhalation) TWA
Breathable dust	OSHA PEL	5 mg/m ³ TWA
	ACGIH TLV	3 mg/m ³ (breathable) TWA

Parameters of exposure controls : Total dust of Zinc Phosphate (Impurity<2.5%)

<u>Impurity</u> <u>Designation</u>	<u>Type of Data</u>	<u>Unit</u>
Total dust (no special effect)	ACGIH-91/93	
	TLV : TWA (USA)	10 mg/m ³
	MAK (Germany)	6 mg/m ³ Valid as per (mm/yy) : 05 / 95
	VME France 8H	10 mg/m ³
	VME France 8H	5 mg/m ³ respirable dust

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory protection: Adapted dust mask while handling the powder (for example FFP2). If possible, use a full face piece mask (upper permitted limits) when dust occurs.

Hand protection: Use gloves during handling.

Eye protection: Safety glasses with side shields (for example EN166).

Skin protection: Wear appropriate clothing to avoid any contact with skin.

Clothing: Employee must wear appropriate protective (impervious) clothing and equipment to prevent from any possibility of skin contact with this substance,

Other protective equipment/recommendations: Observe good personal hygiene. Keep away from food stuff, drinks on the site. Wear appropriate working clothing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

ENVIRONMENT PROTECTIVE MEASURES

Atmospheric emissions: Ventilation systems must be appropriate for the level of performance required to control air emissions in accordance with current national requirements.

Water emissions: Must be controlled to prevent contamination of public sewage, rivers, surface water according national and local regulations.

Soil emissions: Do not let this material to contaminate soils or ground.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid, fine powder.

Appearance : white powder.

Odour : odourless.

Change in physical state

Dehydration

150 - 400°C

Melting

1180°C

Decomposition

none as long as properly used.

Flash point

: not applicable.

Flammable properties

: not combustible, fire retardant.

Explosion risk

: not applicable.

Vapour pressure (20°C)

: not applicable.

Specific gravity

: 2.2 g/cm³ ISO 787/10

Solubility (water 20°C)

: 0.3 g/l.

Solvent solubility

: Soluble in dilute mineral acids and ammonium salt solutions and insoluble in liquid ammonia.

pH (20°C)

: 7 - 9 ISO 787/9

other information

: none

Partition coefficient: n-octanol-water

: not applicable

10. STABILITY AND REACTIVITY

Reactivity: Unreactive with respect to materials commonly used in transport, handling and storage of industrial materials

Chemical stability: Stable under normal temperature and pressure.

Possibility of hazardous reactions: None hazardous reactions if stored and handled in controlled conditions.

Conditions to avoid: Keep clear of acids and bases (solubility in these media).

Incompatible materials: No further relevant information available.

Hazardous decomposition products: no hazardous decomposition product in normal storage conditions. This product doesn't polymerise.

11. TOXICOLOGICAL PROPERTIES

Toxicity:

LD₅₀ oral (rat): > 10 000 mg/kg.
LD₅₀ (rabbit) skin: > 7940 mg/kg.

Additional information: With a LD₅₀ value top to 2000 mg/kg "body weight", shows a low level of acute toxicity, not leading to classification for acute oral toxicity.

Potential health effects:

INHALATION:

Acute exposure: May cause burn.
Chronic exposure: No data available.
Short term exposure: Irritation (possibly severe).
Long term exposure: No information is available

SKIN CONTACT:

Acute exposure: May cause irritation.
Chronic exposure: No data available.
Short term exposure: Irritation (possibly severe) by mechanical action.
Long term exposure: No information is available

EYE CONTACT:

Acute exposure: May cause irritation.
Chronic exposure: No data available.
Short term exposure: Irritation (possibly severe) by mechanical action.
Long term exposure: No information is available

INGESTION :

Acute exposure: May cause irritation. These salts are poorly absorbed and rarely cause toxic effects other than possible gastrointestinal irritation with purging. However, accumulation may be sufficient to produce toxic effects if renal or intestinal function is impaired. Massive doses may cause vomiting, watery diarrhea, electrolyte imbalance, hypotension, sedation, confusion, respiratory congestion, abolition of reflexes and central nervous system depression which may progress through coma to medullar paralysis. Effects on the cardiovascular system may include bradycardia and cardiac arrest.

Chronic exposure: Long-term use of such a product has caused renal failure from precipitation with ammonia in the kidney. The cations are damaging the heart muscle and pathological findings have shown hemorrhagic gastroenteritis.

Short term exposure: Burns, vomiting, diarrhoea, irregular heartbeat, symptoms of drunkenness, coma.
Long term exposure: Digestive disorders, kidney damage.

Specific toxicity target organ, sensitizing effects: Data not available

CMR STATUS: **OSHA:** No **NTP:** No **IARC:** No

12. ECOLOGICAL INFORMATION

Aquatic toxicity: No data available. Classified Chronic Category 3 toxic to the aquatic environment under the rule of mixtures (toxicity from the presence of an impurity TriZinc bis(Orthophosphate) within 2.5%).

According to GHS 2009 and CLP regulation 1272/2008/EC the substance Alkaline Earth phosphate is not listed in EU annex VI. However, this product NOVINOX PAT15 is Toxic Category 3 for the aquatic environment, because traces of zinc phosphate may be present in this product by up to 2.5%.

Mobility: Do not mix with waste waters.

Persistence/degradability: Not bio-degradable.

Results of PBT and vPvB assessment (annex XIII of regulation 1907/2006/EC): Not applicable because the substance is an inorganic substance.

Others lasting effects: No further relevant information available

13. DISPOSAL

Methods of waste treatment:

Material: Dispose in accordance with local environmental regulations

* This product does not meet the definition of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Contaminated package and containers: Empty bags can be either destroyed, or recycled according to the international norms that apply. Spoiled and unclean packaging is regulated by the ADR.

14. TRANSPORT INFORMATION

Product not classified or regulated (chapter 12)

ADR : Not regulated. **IMDG** : Not regulated. **IATA** : Not regulated.

15. REGULATORY INFORMATION

Labelling according to the 1272/2008/EC regulation (CLP-GHS): Product with a chronic hazard to the aquatic environment. This mixture is classified with the phrase: Chronic Category 3 Toxic to the aquatic environment

▽ Risk phrases

H412:	Harmful, to aquatic life with long lasting effects
P273:	Avoid release to the environment
P501:	Dispose of contents/ containers to be collected by a licensed contractor in accordance with national and local regulations

Due to its non-hazardous nature, NOVINOX PAT15 is not subject to any storage restriction. This material is not SEVESO II regulated (EC).

16. FURTHER INFORMATION

- **TOTAL LEAD** : < 0,1 %
- **SOLUBLE LEAD (HCI 0,07 N)** : < 0,1 %

EUROPEAN UNION :

Labelling according to the GHS/CLP 1272/2008/EC regulation: Aquatic chronic category 3

- H412: Harmful, to aquatic life with long lasting effects
- P273: Avoid release to the environment
- P501: Dispose of contents/ containers to be collected by a licensed contractor in accordance with national and local regulations

Elimination: Dispose of contents/container as hazardous waste in a disposal facility approved accordance with national regulations.

Storage: Due to non-classification NOVINOX PAT 15 is not subjected to any storage restriction rule

GERMANY: WGK1 (Germany)

U.S. REGULATIONS:

NOVINOX PAT15 is not subjected to labelling (GHS environmental hazards building block not implemented in USA).

NFPA Classification (National Fire Protection Agency, USA) : Health : 1 - Fire : 0 - Reactivity : 0

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30) : Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40) : Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21): ACUTE: No / CHRONIC: No / FIRE: No / REACTIVE: No / SUDDEN RELEASE: No.

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS : California Proposition 65: Not regulated.

NOVINOX PAT15 is TSCA registered.

International status of the products included in, of this preparation :

- **Europ (EC):** REACH Status: This product is based on pre-registered substance.
All the components are included in the EINECS.
▽This product meets with RoHS 2 directive (2015/863/UE) for Lead, Cadmium, hexavalent Chromium, Mercury, Diphenylethers Polybrominated, Polybromated Biphenyls and Phtalates: DEHP, BBP, DBP, DIBP.
End Life Vehicles (ELV 2000/53/EC)
- **Australia:** All the components are listed in the AICS.
- **Canada:** All the components are Domestic Substance List (DSL) registered.

End of safety data sheet

The information contained herein is based on the present state of our knowledge, but without liability.

Modifications compared to the previous version: : Addition ▽ : Text modification.