

1. Identification of the substance / preparation and of the company / undertaking

Product Name:

NOVAX® AUS32 or NOVAX® AdBlue

Product Use:

Used according to manufacturer's directions. Used for NOx

reduction in exhaust gases from vehicles with SCR diesel engines.

Manufacturer/Supplier:

NOVAX Material & Technology Inc.,

No.31,Ln.142,Sec.2, Nankan Rd., Luzhu Township,

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TEL: +886-3-3115988 Fax: +886-3-3115288

e-mail address of person responsible:

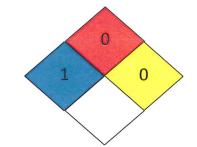
yang@novax-material.com

Emergency Tel. number:

0800-200699 (24hrs)

NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	1
Fire	0
Reactivity	0
Personal Protection	



2. Hazards Identification

Emergency Overview:

Caution eye and skin irritant.

Potential short term health effects:

Eyes:

May cause irritation.

Skin:

May cause irritation.

Inhalation:

May be harmful by inhalation. May cause respiratory tract irritation.

Ingestion:

May cause stomach distress ,nausea or vomiting.

Signs and symptoms:

Symptoms may include redness, edema ,drying, defatting and

cracking of the skin.

Symptoms of overexposure may be headache dizziness,

tiredness, nausea and vomiting.

3. Composition/information on ingredients Ingredient Name CAS number EC number % Water 7732-18-5 231-791-2 67.5 Urea 57-13-6 200-315-5 32.5

4. First Aid Measures

Doctor's advice:

Follow a treatment according to symptoms

Inhalation:

Remove casualty to fresh air. Seek medical advice if irritation continues.

Ingestion:

Rinse mouth with plenty of water. Try to drink milk if available. Do not cause



vomit. See medical assistance.

After contact with skin wash immediately with plenty of water. Remove heavily Skin:

contaminated clothing and launder before reuse.

Rinse with plenty of water for 15 minutes and seek medical advice. Eyes:

5. First Aid Measures

Extinguishing media:

In case of fire, use water spray (fog) ,foam ,dry chemical or CO_2 .

Decomposition products:

carbon dioxide (${\rm CO_2}$) , carbon monoxide (${\rm CO}$) ,nitrogen oxides

 (NO_x) , ammonia (NH_3)

Protective equipment for fire-fighters:

Wear suitable protective equipment. Wear a breathing device if

necessary.

6. Accidental release measures

Personal precautions:

Keep unnecessary personnel away. Wear appropriate protective clothing.

Environmental precautions:

Prevent the product from entering into drains.

Methods for cleaning up:

Prevent large spills from entering sewers or waterways. Contact emergency

services and supplier for advice. Never return spills in original containers for

re-use.

7. Handling and Storage

Handing:

Wear suitable protective equipment. When using the product do not eat, drink or smoke. Use

according to industrial hygiene rules.

Storage:

Use according to industrial hygiene regulations. Store in a closed container away from

incompatible.

8. Exposure controls / Personal Protection

Engineering controls:

Ensure adequate ventilation, especially in confined areas. Use only under good

ventilation conditions or with respiratory protection.

Exposure limits

OSHA-PEL ACGIH-TLV Not established Not established

Personal protective equipment:

Wear safety glasses with side shields. Eye:

Impervious gloves. Hand: Protecting clothing. Skin:

In case of improper ventilation use a breathing device.

Respiratory protection:

Avoid breathing vapors. Handle in accordance with good industrial General hygiene considerations:

hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handing the product.



9. Physical & Chemical Properties

Appearance: Clear

Color: Colorless

Form: Liquid

Odor: Slight ammonia

pH: 9.0-10.0 (conc.10%)

Freezing point: -11.5℃

Boiling point : 100℃

Density (20 $^{\circ}$ C): 1.087-1.092 g/cm³

Vapor pressure: 6.4 kPa (48mmHg@40℃)

Water solubility: Soluble

10. Physical & Chemical Properties

Stability: Stable under recommended storage conditions.

Conditions to avoid: Do not mix with any other chemical or product.

Incompatible materials: Acids ,Oxidizers ,Alkalis.

Hazardous decomposition products:

Ammonia gas may be released at high temperatures. Burring of the

product releases CO, CO2, NOX.

11. Toxicological Information

Effects of acute exposure:

Eye: May cause irritation.

Skin: May cause irritation.

Inhalation: Not available.

Ingestion: May cause stomach distress, nausea or vomiting.

12. Ecological Information

Eco toxicity: Components of this product have been identified as having potential

environment concerns.

Environmental effects: Not available

Mobility in environmental media: Not available

Bioaccumulation/accumulation: Not available

Chemical fate information: Not available

Other adverse effects: Not available

13. Disposal considerations

Methods of disposal: Empty containers or liners may retain some product residues. Do not empty into

drains; Dispose of this material and its container in a safe way. Dispose of in

accordance with all applicable local and national regulations.



Hazardous waste:

Disposal according to local regulations.

14. Transport Information

1. Not regulated as dangerous goods.

Transportation of dangerous goods:

2. Not regulated as dangerous goods under IATA (required by FedEx)

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all tje information required by the Controlled Products Regulations.

16. Other Information

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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