

Safety data sheet AUS32/DIESEL EXHAUST FLUID

1. Identification of the substance/preparation and company undertaking

Product name : Diesel Exhaust Fluid / AUS32
Use of the substance/preparation : Additive for the reduction of NOx emission from diesel engine exhausts
Supplier : Technisch Rennen Engineering Pvt. Ltd
C-171, MIDC, Butibori Industrial area,
Nagpur, Maharashtra, India-440034
Tel : +91 9822469151
Emergency contact no : +919822469151

2. Composition/information on ingredients

Substance/preparation : Preparation
Chemical characterization : Concentrated aqueous solution containing urea

Chemical Identity	CAS	EINECS	Symbol(s)	R-phrase(s)	Conc.
Water	7732-18-5	231-791-2			68.2 – 66.8
Urea	57-13-6	200-315-5			31.8 – 33.2

There are no ingredients or additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence requiring reporting in this section.

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3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments. The preparation is non-hazardous.

Classification : Not classified.

No known significant effects or critical hazards.

4. First aid measures

- Inhalation** : Move exposed person to fresh air.
Obtain medical attention if symptoms occur.
In case of Inhalation of decomposition products in a fire, symptoms may be delayed.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.
Obtain medical attention if large quantities are swallowed.
- Skin contact** : Wash contaminated skin with soap and water.
Remove contaminated clothing and shoes.
Obtain medical attention if persistent irritation occur.
- Eye contact** : Immediately flush eyes with plenty of water.
Occasionally lifting upper and lower eyelids.
Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- General** : Move the victim to a safe area as soon as possible. If unconscious, place in recovery position and seek medical advice. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or

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oxygen by trained personnel. Maintain as open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Allow the victim to rest in a well-ventilated area.

Protection of

first aiders :No action shall be taken involving any personal risk or without suitable training.

5. Fire fighting measures

Suitable

Extinguishing media: Foam, water, spray, dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Not suitable :Do not use water in a jet.

Special exposure

Hazard :In a fire or if heated, a pressure increase will occur and the container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous

Combustion :Decomposition products may include the following
Products materials: Carbon oxides, Nitrogen oxides, Ammonia, cyanuric acid

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Special protective

Equipment for

fire fighters :Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

General :Avoid contact with spilled or released material.

Personal

precautions :Provide adequate ventilation. Put an appropriate personal protective equipment.

Environmental

Precautions

Contact :Avoid dispersal of split material and runoff and with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air.)

Large spill :Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Absorb with dry earth, sand or other non-combustible material. Contaminated absorbent material may pose the same hazard as the spilled product.

Small spill :Stop leak if without risk. Move containers from spill area. Absorb with liquid-binding material (sand, diatomite, universal binders etc.) or use spill kit.

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7. Handling and storage

Handling : Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Provide adequate ventilation.

Storage ready : Keep container tightly closed and sealed until for use. Use appropriate containment to avoid environmental contamination. Store away from incompatible materials. Keep away from food, drink and animal feeding stuffs.

Packaging materials

Recommended : Use original container-high density polyethylene, stainless steel.

Unsuitable materials: Non-ferrous metals.

8. Exposure controls / personal protection

Exposure limit values

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
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No exposure limit value known.

Recommended monitoring

Procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference

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should be made to European standard En 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

- Hand protection : Use chemical-resistant, impervious gloves. Personal hygiene is a key element of effective hand care. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
- Eye protection : Use safety eye wear designed to protect against splash of liquids
- Skin protection : Avoid contact with skin. Wear suitable protective clothing.
- Environmental exposure
- Equipment : Emissions from ventilation or work process should be checked to ensure they comply with the requirements of environmental protection legislation.

9. Physical and chemical properties

Appearance

- Physical state : Liquid
- Color : Colorless
- Odor : Ammonia

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Important health, safety and environmental information

Flash point	: Not applicable
Flammable limit	: Not applicable
Auto-ignition	
Temperature	: Not applicable
pH	: 8.0 to 11.0
Viscosity	: Dynamic: 1.4 mPa-s (1,4 cP) [25 °C]
Density	: 1.090 g/cu.cm
Melting point	: -11.5 °C [11.3 °F]
Boiling point	: 103 °C [217.4 °F]
Solubility	: Easily soluble in cold water and hot water

10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: Extremes of temperatures and direct sunlight.
Materials to avoid	: Strong oxidizing agents
Hazardous	
Decomposition	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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11. Toxicological information

Potential acute health effects

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin : Not expected to be a hazard

Eye : Not expected to be a hazard

Carcinogenicity : Components are not known to be associated with carcinogenic effects.

Potential chronic health effects

No known significant effects or critical hazards.

Over-exposure signs/symptoms

No specific data

12. Ecological information

Environmental

effects : The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendment

Aquatic ecotoxicity

Conclusion/summary: Readily biodegradable

Mobility : Large volumes may penetrate soil and could contaminate groundwater.

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13. Disposal consideration

Methods of

disposal : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Do not dispose into the environment, in drains or in water courses. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU directive 91/689/EEC.

14. Transport information

Regulatory information	UN Number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class						
ADNR Class						
IMDG Class						
IATA Class						

PG* Packing group

This product is non hazardous material for land transport, railway transport, sea transport and air transport. (ADR,RID,UN,IMO,IATA/ICAO)

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15. Regulatory information

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Risk phrases : This product is not classified according to EU legislation

Product use : Industrial applications

Europe inventory: All components are listed or exempted.

Chemical inventory

Status AICS : All components are listed or exempted.

16. Other information

History

Date of issue : 01/01/2018

Date of previous issue: -

Version : 1.1

Notice to reader

To the best of our knowledge, the information contained is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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