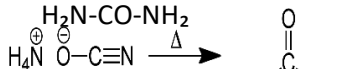


AUS 32 SAFETY DATA SHEET

1. IDENTIFICATION of THE MATERIAL and SUPPLIER

1.1 Product identifier

Ticari Adı AUS 32 (%32,5 (m/m) urea solution)
CAS No 57-13-6
Synonyms Carbonyl Diamide
Molecular Formula $\text{H}_2\text{N}-\text{CO}-\text{NH}_2$
Structural Formula 

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

Reactant for reducing NOx-emissions.

1.3 Details of the supplier

Company Name: AMC Mühendislik ve Otomotiv San. Tic. Ltd. Şti.
Address: Karadenizliler Mah. Fakülte Cad. Kahraman Sok No:13 Başiskele/KOCAELİ
Telephone: 0262 349 20 24
E-Mail: kalite@blueforce.com.tr

1.4 Emergency telephone number

Company Advisory: 0262 349 20 24
Emergency First Ait Center: 112
National Poison Counseling Center (UZEM): 114

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not classified.

2.2 Label Elements

Signal Word: Not classified.
Hazard Statements: Not classified.
Precautionary Statements: Not classified.

2.3 Other Hazards

3. COMPOSITION AND INGREDIENT INFORMATION

This product does not contain any hazardous ingredients at or above regulated thresholds.

4. FIRST-AID MEASURES

4.1 4.1 Description of First Aid Measures

4.1.1 General

Get help if discomfort persists.

4.1.2 Inhalation

If inhaled, remove to fresh air.
 In case of inhalation of decomposition products in a fire, symptoms may be delayed.
 Get medical attention if symptoms occur



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4.1.3 Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse.

Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.



4.1.4 Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Eyelids should be held away from the eyeball to ensure thorough rinsing.

Check for and remove any contact lenses. Get medical attention if irritation occurs.



4.1.5 Ingestion

Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention if symptoms occur.



4.2 Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treatment should in general be symptomatic and directed to relieving any effects.

5. FIRE-FIGHTING MEASURES

5.1 General Information

The product is not self-flammable.

5.2 Fire Extinguishers

Suitable extinguishing media: In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable extinguishing media: Do not use water jet.

5.3 Special Hazards Arising From The Substance or Mixture

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x). Ammonia or amines.

5.4 Advice for Fire Fighters

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.

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Firefighters' clothing (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection to avoid chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment And Emergency Procedures

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.1.1 For Non-Emergency Personnel

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

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

Floors may be slippery; use care to avoid falling.

6.2 Environmental Precautions

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

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9. PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Colourless
Odour:	Ammoniacal (Slight)
pH:	8,5-10,5 (Con. (%w/w): 10%)
Solubility:	Soluble in water.
Boiling Point:	Decay: 100°C (212°F)
Relative Density:	1087-1093 kg/m ³ (20°C)
Freezing Point:	-11,5 °C

9.2 Other Information

10. STABILITY and REACTIVITY

10.1 Reactivity

There are no known reactivity hazards associated with this product.

10.2 Chemical Stability

Stable at normal ambient temperatures.

10.3 Possibility of Hazardous Reactions

Under normal conditions of storage and use, no hazardous reactions will occur.

10.4 Conditions to avoid

Avoid contamination by any source including metals, dust and organic materials.

10.5. Incompatible Materials

Alkali metals. Acids - oxidising. Strong oxidising agents.

10.6. Hazardous Decomposition Product

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on Toxic Effects

Information on the likely routes of exposure

Routes of entry anticipated: Dermal, Inhalation

Potential acute health effects

Inhalation: At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

Ingestion: Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

Skin Contact: Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

Eye Contact: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Symptoms related to the physical, chemical and toxicological characteristics

No specific data.

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Delayed and immediate effects and also chronic effects from short and long term exposure

Inhalation: Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Ingestion: Ingestion of large quantities may cause nausea and diarrhoea.

Skin contact: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.

Eye contact: Potential risk of transient stinging or redness if accidental eye contact occurs.

12. EKOLOJİK BİLGİLER**12. ECOLOGICAL INFORMATION****12.1 Toxicity****12.2 Persistence and degradability**

The product is biodegradable

12.3 Bioaccumulative potential

This product is not expected to bioaccumulate in the environment through food chains.

12.4 Mobility in soil

The product is soluble in water

12.5 Results of PBT and vPvB assessment**12.6 Other adverse effects**

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS**13.1. Waste Processing Methods**

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

The product is not covered by the international regulation on the transport of dangerous goods.(IMDG, IATA, ADR/RID)

15. REGULATORY INFORMATION**National regulations**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

Guidance

Workplace Exposure Limits EH40.

CHIP for everyone HSG228.

Approved Classification and Labelling Guide (Sixth edition) L131.

Safety Data Sheets for Substances and Preparations.

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16. OTHER INFORMATION

- The information provided in this Safety Data Sheet has been prepared based on the best experience, knowledge and beliefs available at the time of preparation.
- The information provided is intended as a guide for safe handling, use, processing, storage, transportation, disposal and disposal.
- Unless specified in the document, this information is valid only for the specified substance and may not be valid if this substance is used with other substances or used in any other process.
- Observe the information in the Safety Data Sheet for use.

Issued by ERDAL ÇINARCI / Certified SDS Preparer Certificate No GFB-144
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