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New Issue Date: 23.02.2024

Damaging materials And to mixtures Related Security Information Forms About regulation (RG to 13.12.2014-29204) Prepared accordingly .

1: Identification of the substance/mixture and company/distributor

1.1. Identity of the substance/mixture

Product name: **AdBlue**

1.2. Identified Uses of the Substance or Mixture and Uses Advised

It is used to reduce harmful NOx emissions in diesel engine vehicles with Selective Catalytic Reduction system.

1.3. Safety Data Sheet Supplier Information

Manufacturer/Supplier: **Parkim Gres Endüstri Yağları San. And Trade. Inc.**

Address: İnönü Mahallesi Gebze Plastikçılar OSB Mahallesi 32. Sk . No: 11 41400 Gebze / Kocaeli

Phone: +90 262 206 01 01 Email: <https://raschoil.com>

Fax : +90 262 01 02

1.4. Emergency Phone Number

National Poison Information Center (UZEM): 114

2: Hazard Identification

It is not classified as a dangerous substance according to the legislation dated 13.12.2014 and numbered 29204.

3. Composition/Information on Ingredients

Substance name	EC Number	CAS No	Contents	Classification (TC29204)
UREA	231-791-2	7732-18-5	31-34%	-
WATER	200-315-5	57-13-6	66-69%	-

4. First Aid Measures

In case of contact with eyes : Wash with plenty of water for 15 minutes. An ophthalmologist should be consulted.

Inhalation: Remove to fresh air. If symptoms persist, a physician should be consulted.

Swallowing : The mouth should be washed with plenty of water and then drunk plenty of water. If symptoms persist, a physician should be consulted.

Contact .: Contaminated clothing should be removed. The skin should be washed immediately with soap and water. If any discomfort persists, a doctor should be consulted.

5. Fire Fighting Methods

Extinguishing media : This product is not flammable. Water can be used to extinguish the fire.

Special fire fighting methods

ATTENTION! If the product is exposed to fire, first ammonia is released, and then CO, CO2 and NOx gases are released at high temperatures. Use protective respiratory masks against gases/fumes.

Special hazards

Cool warehouses exposed to fire and prevent any splashing.

Recommendations for firefighting teams

Use special protective equipment such as boots, overalls, gloves, eye and face protection and respiratory equipment.

6. Accidental Release Measures

Environmental protection measures

Do not pour into drains, soil or waterways.

Spill cleanup methods

Isolate and reduce the leakage as much as possible, close the sewer holes, absorb the spilled product into vermiculite , dry sand or soil and collect it in boxes. Collect the dispersed product by pumping it into a backup tank; It can be used as fertilizer. Wash and clean the area with water.

7. Use and Storage

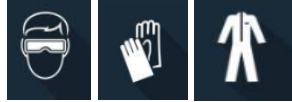
Usage precautions

Avoid contact with skin and eyes.

Storage precautions

the Adblue product are given in detail in the ISO 22241-3 standard. The Adblue product crystallizes at -11.5 °C. It crystallizes. When the product reaches room temperature again , it can be used without any problems. The recommended storage conditions for the AdBlue product are +5 / 25°C in a dry, cool environment away from direct sunlight. If stored under these conditions, the product can be used without any problems for 12 months. Temperature increases, the product shelf life becomes shorter. Adblue Due to its high pH, the product corrodes and incorporates some metals (iron, copper, zinc-chromium, nickel, aluminum) . etc.) The equipment to be used when storing the Adblue product and transferring it to vehicles must be made of the following materials.

8. Exposure Controls / Personal Protection



TECHNICAL MEASURES

Provide proper ventilation. Follow Operational Exposure Limits and reduce the risk of inhaling vapors.

breathing material

Use a breathing mask compatible with CO, CO₂, NH₃ and NO_x gases.

protecting hands

Since the product is basic, use protective nitrile gloves to prevent contact with hands.

eyes protection

If there is a risk of splashing, wear safety glasses or a face shield.

Do not smoke in places where health precautions are taken!

Wash your hands at every shift change and before eating, smoking and before going to the toilet. Do not eat, drink or smoke during use.

skin protection

Protective clothing should be worn.

9. Physical and Chemical Properties

Appearance	Transparent, colorless liquid
Smell	Odorless or with a slight ammonia odor
crystallization point	-11.5oC
pH (20°C)	8.4 - 10.6
Density (g/cm ³ .20 °C)	1.087 - 1.093
Refractive index (20 °C)	1.3814-1.3843
Urea	-34 %
alkalinity	% max 0.2
biuret	% max 0.3
Impurity(mg/kg)	max 20
Aldehyde(mg/kg)	max 5
Phosphate(mg/kg)	max 0.5
Aluminum(mg/kg)	max 0.5
Calcium (mg/kg)	max 0.5
Iron(mg/kg)	max 0.5
Copper (mg/kg)	max 0.2
Zinc(mg/kg)	max 0.2

10. Stability and Reactivity

Stability

It is stable under normal temperature conditions. NH₃ gas begins to be released above 80 °C .

Situations to avoid

Adblue reacts strongly with calcium hypochlorite and sodium hypochlorite , releasing explosive nitrogen trichloride gas.

Materials to avoid

Hypochlorite.alkali metals, Acids – oxidizing/Strongly oxidizing preparations.

Hazardous decomposition products

Fire or high temperature may cause the formation of harmful vapors (CO, CO₂, NO_x). Ammonia or amines.

11. Toxicological Information

BREATHING

No specific health warnings noted.

SWALLOWING

No specific health warnings noted.

SKIN CONTACT

No specific health warnings noted.

CONTACT WITH EYES

No specific health warnings noted.

12. Ecological Information

Ecotoxicity

It is not considered dangerous for the environment. It is not toxic to aquatic organisms (Keskin CE 50 > 1 g/l fish, algae, invertebrates)

Mobility

The product is water soluble.

Persistence and degradability

bacterial ureases .

Other data

Urea is a nutrients for plants. Can be used as fertilizer by diluting with water

13. Disposal Information

Using the product does not cause waste generation. Since product packaging is classified as "hazardous contaminated waste", it is sent to disposal/recycling facilities according to local authority rules.

14. Transportation Information

GENERAL

The product is not classified as a dangerous goods within the scope of the international regulations on the transportation of dangerous goods (IMDG, IATA, ADR/RID).

Road Transport: Not classified

Railway Transportation: Not classified.

Sea Route: Not classified .

Air Transportation: It is not classified .

15. Regulatory Information

Legal Information: It has been prepared by certified expert personnel as required by the regulation within the framework of the Regulation on Safety Data Sheets for Harmful Substances and Mixtures (dated 13 December 2014 and 29204).

Labeling : According to the classification, labeling and packaging of hazardous substances directive (67/548/EEC and 1999/45/EC), it is not within the scope of dangerous goods.

Classification/ Symbol: None.

R phrases : None.

S- phrases : None

16. Other Information

In case of a combination or mixture, it must be ensured that no new dangers will arise. The information provided in this document is given in good faith and is based on the latest data we have on the relevant product as of the date of publication. However, some data may be in revision. Users' attention has been drawn to the risks encountered when a product is used for purposes other than those for which it was intended. This document may be used and reproduced for precautionary and safety purposes only. The enumeration of laws, regulations and administrative texts cannot be interpreted as just the enumeration. It is the responsibility of the buyer of the product to observe all official document texts regarding the use, possession and transportation of the product for which he is responsible . The user of the product must also provide all information necessary for occupational safety, human health and environmental protection (use, storage of containers, various interventions) to the information of people who may come into contact with the relevant product by providing them with the document regarding this safety data.