

【Material Safety Data Sheet】

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product name	SINOPEC Galance Aqueous Urea Solution AUS 32
Product Code	60193388
Product Usage	Applied to trucks and buses equipped with the SCR, to reduce the content of nitrogen oxides in the exhaust gas.
Company Identification	LUBRICANT COMPANY,SINOPEC CORP.
Address	No. 6 AnningZhuang West Road, Haidian District, Beijing, P.R.China
Post Code	100085
Emergency Response	Phone 00-86-400-810-9886 Fax 00-86-10-82410856 E-mail csc.lube@sinopec.com
WebSite	http:// sinolube.sinopec.com

SECTION 2 HAZARDS IDENTIFICATION

GHS Hazards Type	Non-hazardous
GHSLabelElements	
Sign	No data
Caution Words	No data
Hazard Statement	Physical hazards: According to GHS, it is not classified as hazardous substances. Health hazard: According to GHS, it is not classified as health hazard substances. Environmentally hazard: According to GHS, it is not classified as environmentallyhazard substances.
GHS Precautionary Statements	
Precaution	No data
Incident Response	No data
Safe Storage	No data
Disposal	No data
Other Hazards	Not classified as flammable, but burning may release nitrogen oxides.
Main Symptoms and Emergency	No data

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Formula Explain	The product is a mixture,main ingredients include high purity urea and water.
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COMPONENTS	CAS NUMBER	EC NUMBER	CONTENT,wt%
Urea	57-13-6	200-315-5	31.8~33.2
Water	7732-18-5	231-791-2	66.8~68.2

SECTION 4 FIRST AID MEASURES

General Information	Shouldn't become a health hazard when used under normal condition
The disposal of the Different Contact Manner	
Inhalation	Move exposed person to fresh air and provide oxygen. Get medical attention if coughing or respiratory discomfort occurs.
Skin	As a precaution, remove clothing and shoes if contaminated. Avoid prolonged or repeated contact with skin. Wash with soap and water to remove the material from skin. Get medical attention.
Eye	Wash eyes with water for 15 minutes. If irritation occurs, get medical attention.
Ingestion	If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
Main Symptoms	No data

SECTION 5 FIRE FIGHTING MEASURES

Special Risk	Not hazardous product.
Extinguishing Method and media	Products contain large amounts of water, so there is no limit to the types of fire extinguishing medium, the choice of its surrounding area environment should be considered. Spray, Carbon dioxide, foam, dry chemical and water fog.
Combustion produce harmful substances	incombustible, fire could cause the release of harmful vapors. When fire may produce carbon monoxide, nitrogen dioxide, nitrogen oxide and other organic matter such as cracking of typical combustible components.
Forbidden Media	No data
Firefighters Special Protective Equipment	Must wear breathing apparatus when close to the ignition point in confined space.

SECTION 6 ACCIDENTAL RELEASE MEASURES

	Avoid contact with spilled or released material. Guide to the selection of personal protective equipment, see chapter 8 of the safety data sheet.
	Disposal information, see chapter 13 of safety data sheet. Please comply with all applicable local or national regulations.
Emergency Response Procedures	Cut off the source of fire, immediately contact the workers, and keep other person stay in safe areas. As much as possible cut off the source of leakage, prevent it access to sewers, drains, water. Comply with relevant fire procedures, and refer to chapter 8 of the safety data sheet.
Protective Measures	Wear appropriate personal protective equipment when cleaning up spills.
Environmental Protection Measures	No data
Spill Management	Disposal of the waste refer to chapter 13 of the safety data sheet. FOR LARGE SPILLS: Remove with vacuum truck or pump to storage/salvage vessels. FOR SMALL SPILLS: Soak up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and seal tightly for proper disposal.

SECTION 7 HANDLING AND STORAGE

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Handling

General Preventive Measures	Avoid long or repeated contact with skin, thoroughly clean after contact. Prevent damage of packaging and container, loading and unloading lightly when moving,
Safe Disposal of Note	Operators must receive special training, strictly abide by the operation procedures. To avoid oxidizing reaction. Avoid contact with the strong acid, hydrochloric acid, acid anhydride and chloroformate. Equipped with corresponding quantity of fire equipment and emergency handling equipment. When loading and unloading of 200 litres of bottled products, should wear protective shoes. Empty containers may remain inside.
Storage	Keep container sealed, do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation, keep away from strong oxidizer, sunlight, heat and combustible. Storage temperature is -5°C~30°C. Store in original container.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Allowable Concentration	No data
Engineering Controls	Provide exhaust ventilation or other engineering control, to ensure that the air is lower than the standard provisions of the relevant material concentration.
Personal Protective Equipment	Personal protective equipment shall meet the relevant national standards. Specific content consult the supplier of personal protective equipment. Don't need to wear respiratory protective equipment under the condition of normal use. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, need to choose to conform to the requirements of the relevant laws and regulations of respiratory protection equipment. Specific content consult the supplier of respiratory protection equipment.
Respiratory Protection	Using the resistance to chemical corrosion protective gloves, such as the use of PVC material gloves. Contaminated gloves timely replacement. Thoroughly clean with soap and water after operation.
Hand protection	If may splash, use safety goggles please.
Eye protection	Under the condition of normal use, in addition to ordinary work clothes, do not need special skin and body protection equipment. In case of splash, according to the actual situation of the workplace to choose suitable, non-permeable safety clothing and safety shoes, recommended material is NBR.
Personal Protection	

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless transparent liquid
Odor	Slight ammoniacal odour
pH	9~11
Melting Point	-11.5°C (typical data)
Pour Point	No data
Boiling Point	100°C (typical data)
Flash Point	No data
Explosion Limit	No data
Vapour Pressure	6.4kPa@40°C
Vapour Density	No data
Density	1087.0~1093.0kg/ m ³ (20°C)
Solubility	Soluble in water
Octanol/Water Partition Coefficient	<1

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Autoignition temperature
Decomposition
Temperature No data

SECTION 10 REACTIVITY AND STABILITY

Stability Stable
Incompatibility With Other
Materials May react with strong oxidizing agents
Conditions to Avoid Extreme heat and high energy sources of ignition and strong oxidants
Incompatible Materials Strong oxidants
Hazardous Decomposition
Product Product does not decompose at normal conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Dermal Toxicity LD50(oral, rat) > 15,000mg/kg
Skin irritation or Corrosion No irritation(rabbit)
Eye irritation or Corrosion No irritation(rabbit)
Inhalation Hazards Inhalation of vapor may feel a mild stimulation.
Respiratory or Skin
Sensitization Expectations are not skin sensitization
Germ Cell Mutagenicity No mutation danger
Carcinogenicity No data
Reproductive Toxicity No data
Specific target Organ No data
Toxicity—Disposable
Contact
Specific target Organ No data
Toxicity—Disposable
Contact—Repeated
contact
Additional Information No data

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity No related data.
Persistence and
Degradability Expected easily biodegradable.
Potential Bioaccumulation Low potential for bio-accumulation.
Mobility Weaker soil adsorption.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal As far as possible recovery or recycling, or approved by relevant laws and regulations of waste collected for centralized treatment.
Disposal of Containers As much as possible by acquire the relevant laws and regulations approved by the dealer to dispose waste collection.
Note to Release Please use the personal protective equipment.Avoid waste soil or contact into the gutter.Using the recognized authority department of means of transport, recycling equipment handling or storage devices when waste material flow or storage.

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SECTION 14 TRANSPORT INFORMATION

Land, sea and air transport process, the product is not classified as dangerous goods.

UNDangerousGoods Not Applicable

Code

UN Shipping Name Not Applicable

UNHazard type Not Applicable

Packing Group Not Applicable

Marine Pollutant Not Applicable

SECTION 15 REGULATORY INFORMATION

Not classed, ie considered non-hazardous material according to UN Orange Book and international transport codes e.g. RID (rail), ADR(road), ADNR(inland waterways) and IMDG (sea).

Not classed as hazardous material according to EC Directive 67/548/EC and therefore no obligation for registration.

SECTION 16 OTHER INFORMATION

Revision Date Apr. 3 2015

MSDSVersion Number 1

Other Information Other information and manuals can be obtained through the sales department and technical department.

Amendment Statement The information provided is based on our understanding of the existing data. Description of the product solely for the purpose of complying with requirements of the health, safety and environment. We don't provide any guarantee of the specific characteristics of the product.