



Autofield India

Long Life Coolant, Diesel Exhaust Fluid, Submersible Surface Protector

9-Surbhi Complex, Opp. Jaynath Petrol Pump,

Gondal Road, Rajkot-360002 (Gujarat)

Ph. : +91-281-2360694, Mob : +91 9824200058

E-Mail : autofieldindia@hotmail.com, info@autofieldindia.com

Material Safety Data Sheet

1. Identification of the material and supplier

Product name	Autofield safeground (DEF)
SDS no.	580013
Product use	Reactant for reducing NOx-emissions.
Supplier	Autofield India 9-Surbhi Complex, Opp. Jaynath Petrol Pump, Gondal Road, Rajkot-360002 (Gujarat) India. Technical Helpline Number : 1300 139 700 www.autofieldindia.com
EMERGENCY TELEPHONE NUMBER	+91-9824200058
Product code	580013

2. Hazards identification

Statement of hazardous/ Dangerous nature	NON-HAZARDOUS SUBSTANCE NON-DANGEROUS GOODS.
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3. Composition/ information on ingredients

Water and Urea (31.8 – 33.5 %)	
This product does not contain any hazardous at or above regulated thresholds.	

4. First-aid measures

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
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 irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear. 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.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Advice to doctor	Treatment should in general be symptomatic and directed to relieving any effects.

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5. Fire-fighting measures

Extinguishing media

Suitable

In case of fire, use foam, dry chemical or carbon dioxide extinguisher

Not suitable

or spray

Hazardous decomposition products

Do not use water jet

Combustion products may include the following.

Carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide) nitrogen oxides

Unusual fire/explosion hazards

In a fire or if heated, a pressure increase will occur and the container may burst.

Special fire-fighting procedures

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire

Protection of 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

Personal precautions

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 (see Section 8).

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).

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.



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7. Handling and storage

Handling	Put on appropriate personal protective equipment.
Storage	Store and use only in equipment/containers designed for use with this product. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).
Not suitable	Prolonged exposure to elevated temperature.

8. Exposure controls/ personal protection

Occupational exposure limits	No exposure standard allocated.
Biological Limit Values	No biological limit allocated
Exposure controls	
Occupational exposure controls	<p>Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.</p> <p>All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.</p> <p>Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organization for standards.</p> <p>The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.</p>
Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.



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Personal protective
equipment
Respiratory protection

Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure.

In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacture and with a full assessment of the working conditions.

Skin and body

Use of protective clothing is good industrial practice
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Hand protection

Wear protective gloves if prolonged or repeated contact is likely.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacture and with a full assessment of the working conditions.

Eye protection

Safety glasses with side shields.

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9. Physical and chemical properties

Physical state	Liquid.
Color	Clear, Colorless.
Odor	Ammoniacal. (Sight)
Vapor pressure	Not available
Vapor density	Not available
pH	9.5
Boiling point/ range	Not available
Melting point / range	Not available
Relative density/ Specific gravity	Not available
Density	1094 kg/m ² (1.094 glam) at 20°C
Solubility	Soluble in water
Partition coefficient (LogKow)	<1

10. Stability and reactivity

Stability	The product is stable
Conditions to avoid	Avoid contamination by any source including metals, dust and organic materials.
Incompatibility with various substances/Hazardous Reactions	No hazardous reactions identified.
Hazardous decomposition products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides

11. Toxicological information

Eyes	No significant health hazards identified.
Skin	No significant health hazards identified.
Inhalation	Inhalation No significant health hazards identified.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea.

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Acute toxicity	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs. Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea. 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 vapor, mists or fumes resulting from thermal decomposition products occurs.
Chronic toxicity Other chronic toxicity data	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Carcinogenic affects	No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC), or the National Occupational Health and Safety Commission (Australia).
Mutagenic affects	No known significant effects or cortical hazards.

12. Ecological information

Ecotoxicity Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous Substances' [NOHSC (1008) 2004 as amended and adapted].

Biodegradability

Bioaccumulative potential

<u>Product/ingredient name</u>	<u>LogP</u>	<u>BCF</u>	<u>Potential</u>
AdBlue	<1	-	Low

Persistence/degradability Expected to be biodegradable.

Mobility Soluble in water.

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



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13. Disposal Considerations

Disposal considerations/ Waste Information

The generation of waste should be avoided or minimized wherever possible, 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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 split material and runoff and contact with soil, waterways, drains and sewers.

Special Precautions for Landfill or Incineration

No additional special precautions identified.

14. Transport Information

International transport regulations

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

Special precautions for user

No known special precautions required. See Section. "Handling and storage" for additional information.

15. Regulatory Information

Standard Uniform Schedule of Medicine and Poisons

Not regulated.

Control of Scheduled Carcinogenic Substances

Ingredient name

No Listed Substance

Other regulations

REACH Status

Schedule

For the REACH status of this product please consult your company contact, as identified in Section 1.

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United States inventory (TSCA 8b)	All components are listed of exempted.
Australia Inventory (AICS)	All components are listed of exempted.
Canada Inventory	All components are listed of exempted.
China Inventory (IECSC)	All components are listed of exempted.
Japan Inventory (ENCS)	All components are listed of exempted.
Korea Inventory (KECI)	All components are listed of exempted.
Philippines Inventory (PICCS)	All components are listed of exempted.

16. Other Information

Key to abbreviations

AMP = Acceptable Maximum Peak
ACGIH=American Conference of Government Industrial Hygienists, an agency that promulgates exposure standards.
ADG=Australian Code for the Transport of Dangerous Goods by Road and Rail
ADG Code =Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS Number = Chemical Abstracts Service Registry Number
HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.
ICAO = International Civil Aviation Organization.
IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.
IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.
IP 346= A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labeling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.)
DMSO is a solvent.
NOHSC = National Occupational Health & Safety Commission, Australia
TWA = Time weighted average
STEL = Short term exposure limit
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee or experts on the Transport of Dangerous Goods.

History

Date of Issue	16/12/2017
Date of previous issue	No previous validation
Prepared by	Product Stewardship
Notice to reader	

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All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy of completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated applications. You should not use the product other than for the state application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Autofield India Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and other who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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