

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue: 05/29/2023
1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

SECTION 1. IDENTIFICATION

Product name : ZIRAM GRANUFLO™
Product code : P5104062

Manufacturer or supplier's details

Company name of supplier : Taminco BV
A Subsidiary of Eastman Chemical Company
Address : Panterschipstraat 207
Gent 08 9000
Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide
Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 2
Serious eye damage : Category 1
Skin sensitization : Category 1
Specific target organ toxicity : Category 3 (Respiratory system)
- single exposure
Specific target organ toxicity : Category 2 (Liver, Blood, spleen)
- repeated exposure

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : May form combustible dust concentrations in air.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.

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1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

H335 May cause respiratory irritation.
H373 May cause damage to organs (Liver, Blood, spleen) through prolonged or repeated exposure.

Precautionary Statements

Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ eye protection/ face protection.
P284 Wear respiratory protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P330 Rinse mouth.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
Ziram	137-30-4	>= 70 - < 90

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly

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1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

SECTION 4. FIRST AID MEASURES

General advice	: Show this material safety data sheet to the doctor in attendance. Consult a physician.
If inhaled	: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician or poison control center immediately.
In case of skin contact	: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If easy to do, remove contact lens, if worn. Call a physician or poison control center immediately.
If swallowed	: Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: Irregular cardiac activity Nausea Eczema Dermatitis Shortness of breath Use of alcoholic beverages may enhance toxic effects Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Notes to physician	: General advice for dithiocarbamates Biomonitoring possible at chronic exposure: determination of TTCA in the urine at the end of the workday/week. Bloodtesting for delayed effects: liver tests, kidney function, thyroid function

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Water spray Carbon dioxide (CO ₂) Dry chemical Alcohol-resistant foam
Unsuitable extinguishing media	: Do NOT use water jet.

SAFETY DATA SHEET

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PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue:
1.4	08/14/2024	150000103611	05/29/2023
			Date of first issue: 09/06/2016

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| Specific hazards during fire fighting | : Risk of dust explosion.
Hazardous decomposition products will be formed at elevated temperatures. |
| Hazardous combustion products | : Nitrogen oxides (NOx)
Sulfur oxides
Carbon oxides |
| Further information | : Use a water spray to cool fully closed containers.
Do not allow run-off from fire fighting to enter drains or water courses.
Prevent fire extinguishing water from contaminating surface water or the ground water system. |
| Special protective equipment for fire-fighters | : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Wear appropriate personal protective equipment.
Local authorities should be advised if significant spillages cannot be contained. |
| Environmental precautions | : Avoid release to the environment. |
| Methods and materials for containment and cleaning up | : Sweep up or vacuum up spillage and collect in suitable container for disposal.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Eliminate all ignition sources if safe to do so.
Prevent further leakage or spillage if safe to do so. |

SECTION 7. HANDLING AND STORAGE

- | | |
|---|--|
| Advice on protection against fire and explosion | : Minimize dust generation and accumulation.
Keep product and empty container away from heat and sources of ignition. |
| Advice on safe handling | : Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation, especially in confined areas.
Do not breathe vapors or spray mist.
Wash thoroughly after handling.
Ensure that eyewash stations and safety showers are close to the workstation location. |
| Conditions for safe storage | : Do not store together with oxidizing and self-igniting products.
Keep away from heat and flame.
Use explosion-proof equipment.
Keep away from heat and sources of ignition.
Keep away from direct sunlight.
Keep in a cool place away from acids. |

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue: 05/29/2023
1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Respiratory protection : Wear respiratory protection.

Hand protection

Remarks : Rubber gloves Neoprene gloves The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Eye protection : Wear safety glasses with side shields (or goggles).
Face-shield
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

Skin and body protection : Complete suit protecting against chemicals
Protective measures : Remove respiratory and skin/eye protection only after vapors have been cleared from the area.

Ensure that eye flushing systems and safety showers are located close to the working place.

Use personal protective equipment as required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granules

Color : beige

Odor : sweet

Odor Threshold : not determined

pH : 7.1
Concentration: 10 g/l

Melting point/range : not determined

Boiling point/boiling range : not determined

Flash point : Not applicable

Evaporation rate : not determined

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue: 05/29/2023
1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	not determined
Relative density	:	No data available
Density	:	0.60 g/cm ³
Solubility(ies)	:	
Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	471 °F / 244 °C
Decomposition temperature	:	not determined
Viscosity	:	
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	Not explosive
Oxidizing properties	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous decomposition products formed under fire conditions. Dust can form an explosive mixture in air.
Conditions to avoid	:	Heat. Avoid dust formation.
Incompatible materials	:	Strong oxidizing agents Strong acids
Hazardous decomposition products	:	Carbon dioxide (CO ₂) Sulfur oxides Nitrogen oxides (NO _x)

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue: 05/29/2023
1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Fatal if inhaled.

Product:

Acute oral toxicity	:	LD50 Oral (Rat): 478 mg/kg Remarks: Harmful if swallowed.
Acute inhalation toxicity	:	Remarks: It was demonstrated that during intended and foreseen applications, no respirable aerosol is formed.
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 5,000 mg/kg Remarks: No significant adverse effects were reported

Components:

Ziram:

Acute oral toxicity	:	LD50 (Rat): 267 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 0.06 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Result	:	Non-irritating to the skin.
Remarks	:	May cause an allergic skin reaction.

Components:

Ziram:

Species	:	Rabbit
Result	:	No skin irritation
Remarks	:	No significant adverse effects were reported

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
Assessment	:	Corrosive

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue: 05/29/2023
1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

Components:

Ziram:

Species	:	Rabbit
Result	:	Corrosive
Remarks	:	Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Test Type	:	Skin sensitization
Species	:	Guinea pig
Result	:	positive
Remarks	:	Causes sensitization.

Components:

Ziram:

Routes of exposure	:	Skin contact
Result	:	Causes sensitization.

Germ cell mutagenicity

Not classified based on available information.

Product:

Germ cell mutagenicity - Assessment	:	Did not show mutagenic effects in animal experiments.
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Components:

Ziram:

Germ cell mutagenicity - Assessment	:	Did not show mutagenic effects in animal experiments.
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Carcinogenicity

Not classified based on available information.

Product:

Remarks	:	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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Components:

Ziram:

Carcinogenicity - Assessment	:	Did not show carcinogenic effects in animal experiments.
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SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue: 05/29/2023
1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

- IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Product:

Reproductive toxicity - Assessment : Did not show teratogenic effects in animal experiments.

Components:

Ziram:

Reproductive toxicity - Assessment : No toxicity to reproduction
Did not show teratogenic effects in animal experiments.

STOT-single exposure

May cause respiratory irritation.

Product:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Liver, Blood, spleen) through prolonged or repeated exposure.

Product:

Target Organs : Liver, Blood, spleen
Assessment : May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Experience with human exposure

Product:

Inhalation : Remarks: Fatal if inhaled.
Skin contact : Remarks: May cause an allergic skin reaction.
Eye contact : Remarks: Causes serious eye damage.
Ingestion : Remarks: Harmful if swallowed.

Further information

Product:

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version 1.4	Revision Date: 08/14/2024	SDS Number: 150000103611	Date of last issue: 05/29/2023 Date of first issue: 09/06/2016
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Remarks : None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	: LC50 (Fish): 0.364 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.131 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (algae)): 0.093 mg/l Exposure time: 120 h
Toxicity to fish (Chronic toxicity)	: NOEC (Fish): 0.189 mg/l

Components:

Ziram:

Toxicity to fish	: LC50 : 0.0097 - 1.70 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.048 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Chlorella pyrenoidosa): 0.094 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity)	: NOEC: 0.101 - 0.222 mg/l
Toxicity to microorganisms	: IC50 (Bacteria): 19.20 mg/l Exposure time: 3 h

Persistence and degradability

Product:

Biodegradability	: Biodegradation: 50 % Exposure time: < 2 d
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Components:

Ziram:

Biodegradability	: Biodegradation: 50 % Exposure time: < 2 d
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Bioaccumulative potential

Product:

Bioaccumulation	: Remarks: Bioaccumulation is unlikely.
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SAFETY DATA SHEET

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ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue: 05/29/2023
1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

Components:

Ziram:

Bioaccumulation : Remarks: Accumulation in aquatic organisms is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1.8 (68 °F / 20 °C)

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with local and national regulations. Waste must be classified and labeled prior to recycling or disposal.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s. (Ziram)

Class : 9

Packing group : III

Labels : Miscellaneous

Packing instruction (cargo aircraft) : 956

Packing instruction (passenger aircraft) : 956

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ziram)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue:
1.4	08/14/2024	150000103611	05/29/2023
			Date of first issue: 09/06/2016

49 CFR

UN/ID/NA number	: UN 3077
Proper shipping name	: Environmentally hazardous substances, solid, n.o.s. (Ziram)
Class	: 9
Packing group	: III
Labels	: CLASS 9
ERG Code	: 171
Marine pollutant	: no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ziram	137-30-4	10	10

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust
Acute toxicity (any route of exposure)
Serious eye damage or eye irritation
Respiratory or skin sensitization
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Ziram	137-30-4
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California Prop. 65

WARNING: This product can expose you to chemicals including ethylene glycol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue: 05/29/2023
1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TSCA list

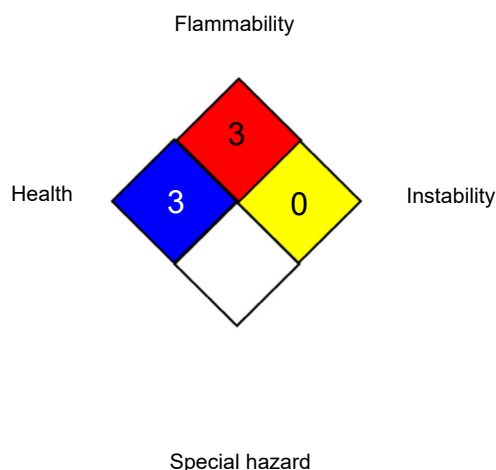
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



ZIRAM GRANUFLO™

PRD / SDSUS / Z8 / 0331

Version	Revision Date:	SDS Number:	Date of last issue: 05/29/2023
1.4	08/14/2024	150000103611	Date of first issue: 09/06/2016

International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 08/14/2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8