

# SAFETY DATA SHEET

## METASOL TK-100



Version 1.1      Revision Date: 10/01/2020      SDS Number: 203000015309      Date of last issue: 09/30/2020  
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### SECTION 1. IDENTIFICATION

Product name : METASOL TK-100  
Product code : 00000000057561116  
EPA registration number : 39967-33

#### Manufacturer or supplier's details

Company : LANXESS Corporation  
Product Safety & Regulatory Affairs  
111 RIDC Park West Drive  
15275-1112 Pittsburgh, United States of America

Responsible Department : +1800LANXESS

Emergency telephone number : Chemtrec (800) 424-9300  
International (703) 527-3887  
Lanxess Emergency Phone (800) 410-3063

#### Recommended use of the chemical and restrictions on use

Recommended use : Biocide

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### SECTION 2. HAZARDS IDENTIFICATION

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

Combustible dust

#### GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Supplemental Hazard Statements :  
Prevent dust accumulation.  
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

Get medical attention if symptoms occur.  
In case of contact, flush skin or eyes with plenty of lukewarm

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water.

### Other hazards

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.  
May form explosible dust-air mixture if dispersed.

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

### Components

No hazardous ingredients

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### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.  
Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Get medical attention if adverse health effects persist or are severe.  
If unconscious, place in recovery position and get medical attention immediately.  
Maintain open airway.  
Loosen tight clothing such as a collar, tie, belt or waistband.  
The exposed person may need to be kept under medical surveillance for 48 hours.
- In case of skin contact : Wash off with plenty of water.  
Remove contaminated clothing and shoes.  
Wash contaminated clothing before reuse.  
Thoroughly clean shoes before reuse.  
Call a physician if irritation develops or persists.
- In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Remove victim to fresh air and keep at rest in a position com-
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Portable for breathing.  
Give small amounts of water to drink.  
Stop if the exposed person feels sick as vomiting may be dangerous.  
If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.  
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.  
Never give anything by mouth to an unconscious person.  
If unconscious, place in recovery position and get medical attention immediately.  
Maintain open airway.  
Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms and effects, both acute and delayed

Symptoms : Eye: May cause irritation with symptoms of reddening, tearing and stinging.  
May cause irritation with symptoms of reddening and itching.

Effects : May cause mechanical irritation (abrasion).

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

Notes to physician : Treat symptomatically.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire-fighting : Fine powder forms flammable and explosive mixtures in air.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides

Further information : 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.  
Move containers from fire if this can be done without risk.  
Cool closed containers exposed to fire with water.  
Collect contaminated fire extinguishing water separately. This

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must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.  
Keep unnecessary and unprotected personnel from entering.  
Remove all sources of ignition.  
Avoid dust formation.  
Ensure adequate ventilation.  
Avoid breathing dust.  
Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Move containers from spill area.  
Use non-sparking tools.  
Use explosion-proof electrical equipment.  
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
Do not allow into the sewerage system, surface waters or groundwater or into the soil.

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### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).  
Avoid inhalation, ingestion and contact with skin and eyes.  
Use only with adequate ventilation.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.  
Electrical equipment should be protected to the appropriate standard.  
Take precautionary measures against static discharges.  
Empty containers retain product residue; observe all precautions for product.  
Do not re-use empty containers.  
Remove contaminated clothing and protective equipment be-

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fore entering eating areas.  
Workers should wash hands and face before eating, drinking and smoking.  
Put on appropriate personal protection equipment.  
Use non-sparking tools and equipment. Consult National Fire Protection Association (NFPA) 654 Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids for details on the safe handling and equipment design.

Conditions for safe storage : Store in accordance with local regulations.  
Minimize dust generation and accumulation, especially on elevated surfaces (e.g., roof beams and trusses, ventilation ducts, wall sills). A dust layer just 1/32nd of an inch(0.793 mm) deep on elevated surfaces may create a dust cloud explosion hazard.  
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.  
Keep away from heat and sources of ignition.  
Keep in a cool place away from oxidizing agents.  
Keep container closed when not in use.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not store in unlabeled containers.  
Use appropriate container to avoid environmental contamination.  
Empty containers retain residue and can be dangerous.  
Do not reuse container.

Further information on storage stability : Keep in a dry place.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Use only with adequate ventilation.  
If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.  
Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).  
Use explosion-proof ventilating equipment.

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### Personal protective equipment

Respiratory protection : Although no exposure limit has been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg/m<sup>3</sup> - total dust, 5 mg/m<sup>3</sup> - respirable fraction is recommended. In addition, the ACGIH recommends 3 mg/m<sup>3</sup> - respirable particles and 10 mg/m<sup>3</sup> - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS).

NIOSH approved, air-purifying particulate respirator with N-95 filters.

### Hand protection

Material : Polyvinyl chloride - PVC  
Wearing time : < 60 min

Material : Nitrile rubber - NBR  
Wearing time : < 60 min

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective clothing.

Hygiene measures : When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Remove contaminated clothing and protective equipment before entering eating areas.  
Ensure that eyewash stations and safety showers are close to the workstation location.  
Wash hands before breaks and at the end of workday.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : light cream, tan

Odour : odourless

Odour Threshold : No data available

pH : 5 - 6  
Concentration: 4 %

Melting point/range : 568 - 574 °F / 298 - 301 °C

Boiling point/boiling range : No data available

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Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : May form combustible dust concentrations in air.

Self-ignition : No data available

Burning number : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : < 0.0001 hPa (77 °F / 25 °C)

Relative density : No data available

Density : 1.4 g/cm<sup>3</sup> (68 °F / 20 °C)

Solubility(ies)

    Water solubility : 0.031 g/l (77 °F / 25 °C)

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : 842 °F / 450 °C

Decomposition temperature : No data available

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Minimum explosible dust concentration : In the case of dusty organic products the possibility of a dust explosion should always be considered.

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

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Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).  
Avoid dust accumulation in enclosed space.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

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### SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

#### Acute toxicity

Not classified based on available information.  
Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.  
Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.  
Not classified based on available information.

#### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified based on available information.

##### Skin sensitisation

Not classified based on available information.

##### Respiratory sensitisation

Not classified based on available information.

##### Respiratory sensitisation

Not classified based on available information.

##### Germ cell mutagenicity

Not classified based on available information.  
Not classified based on available information.

##### Carcinogenicity

Not classified based on available information.  
Not classified based on available information.

**IARC** No component of this product present at levels greater than or equal to 0.1% is



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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 component 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.  
Not classified based on available information.

### STOT - single exposure

Not classified based on available information.  
Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.  
Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.  
Not classified based on available information.

### Further information

#### Product:

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

RCRA - Resource Conserva- : If discarded in its purchased form, this product would not be a

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tion and Recovery Authoriza-  
tion Act      hazardous waste either by listing or by characteristic. Howev-  
er, under RCRA, it is the responsibility of the product user to  
determine at the time of disposal, whether a material contain-  
ing the product or derived from the product should be classi-  
fied as a hazardous waste. (40 CFR 261.20-24)

Waste from residues      :    The generation of waste should be avoided or minimized  
wherever possible.  
This material and its container must be disposed of in a safe  
way.  
Empty containers retain product residue; observe all precau-  
tions for product.  
Avoid dispersal of spilled material and runoff and contact with  
soil, waterways, drains and sewers.  
Waste disposal should be in accordance with existing federal,  
state, provincial and/or local environmental controls.

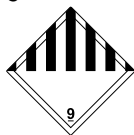
The product should not be allowed to enter drains, water  
courses or the soil.  
Send to a licensed waste management company.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No.      :    UN 3077  
Proper shipping name      :    Environmentally hazardous substance, solid, n.o.s.  
(2-(4-THIAZOLYL)BENZIMIDAZOLE)  
Class      :    9  
Packing group      :    III  
Labels      :    9  
:



Packing instruction (cargo  
aircraft)      :    956 : 400.00 KG  
Packing instruction (passen-  
ger aircraft)      :    956 : 400.00 KG  
Environmentally hazardous      :    yes



##### IMDG-Code

UN number      :    UN 3077  
Proper shipping name      :    ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

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Class : N.O.S.  
Packing group : (2-(4-THIAZOLYL)BENZIMIDAZOLE)  
Labels : 9  
: III  
: 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.

### National Regulations

#### 49 CFR

Not regulated as a dangerous good

Hazard and Handling Notes. : Environmentally hazardous substance., Keep dry., Keep away from acids and oxidizing agents, Keep separated from food-stuffs

### 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.

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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA 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

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

thiabendazole	148-79-8	98.5 %
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### US State Regulations

#### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

thiabendazole      148-79-8      99.5

#### Pennsylvania Right To Know

thiabendazole      148-79-8

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### TSCA inventory

TSCA : This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

#### TSCA list

No substances are subject to a Significant New Use Rule.

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

#### FIFRA information

EPA registration number : 39967-33

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word : WARNING

Hazard statements : Harmful if swallowed or if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation.

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### SECTION 16. OTHER INFORMATION

#### Further information

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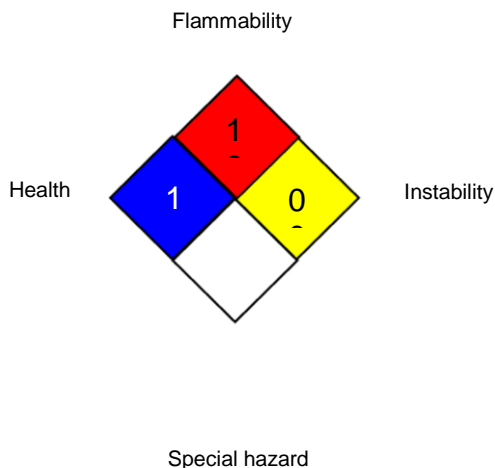
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### NFPA 704:



### HMIS® IV:

HEALTH	/	1
FLAMMABILITY		1
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

AICS - Australian Inventory of Chemical Substances; 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 - 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;

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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

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The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.