

1 Identification**Product identifier****Trade name:** Additive M27**Article number:** 29166-01**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the preparation:

For industrial use only

Anticorrosion agent or additive

Additive

Details of the supplier of the safety data sheet**Manufacturer / Supplier:**

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For advice on chemical emergencies, spillages, fires or exposures: +1 866 928 0789 (Toll free)

2 Hazard identification**Classification of the substance or mixture** Not classified.**Label elements****GHS label elements** The product does not meet the criteria which leads to a labeling.**Hazard pictograms** not applicable**Signal word** not applicable**Hazard statements** not applicable**Other hazards** None**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/Information on ingredients****Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.**4 First aid measures****Description of first aid measures****General information:** No special measures required.

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After inhalation: Not applicable, as the concentrate is not volatile.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Firefighting measures

Extinguishing media**Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** No special measures required.**Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:**Precautions for safe handling**

The product is not subject to classification.

Observe the general safety regulations when handling chemicals.

Information about protection against explosions and fires: No special measures required.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:**

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Protect from heat and direct sunlight.

Protect from frost.

Optimal storage temperature between 41°F and 104°F

Optimal storage temperature between 5°C and 40°C.

Minimum shelf life: In closed, original container, at least 36 months.

Specific end use(s) No further relevant information available.

8 Exposure controls/ Personal protection

Additional information about design of technical systems: No further data; see item 7.

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Control parameters**Components with limit values at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Respiratory Protection: Not required.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves (recommended): Suitable protective gloves: Nitrile gloves, minimum thickness of 0.3 mm.

Breakthrough time of glove material:

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection (recommended): Eye protector with side protection (framed eyeglasses) ANSI Z87.1 – 2010

Body protection (recommended): Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Liquid
Color:	Clear
Odor:	Mild
Odor threshold:	Not determined.

pH-value: Slightly acidic

Change in condition:

Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	275 °C (527 °F) (DIN 51751 / ASTM D86)

Flash point: 129 °C (264.2 °F) (ISO 2592 / ASTM D92)

Flammability (solid, gaseous): Not applicable.
Ignition temperature: >350 °C (>662 °F) (DIN 51794 / ASTM E659)

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits (@1013 mbar):

Lower:	Not determined.
Upper:	Not determined.

Oxidizing properties: Not applicable.

Density:

Relative density	0.91 @ 68°F (20°C) (DIN 51757 / ASTM D1217)
Vapor density	Not applicable.
	Not determined.
Evaporation rate	Not determined.

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Solubility in / Miscibility with Water:

Partly miscible.

Partition coefficient (n-octanol/water): Not determined.

Viscosity
Kinematic at 40 °C (104 °F):

45 mm²/s (ISO 3104 / ASTM D445)

Other information:

none

No further relevant information available.

10 Stability and reactivity

Reactivity None known if used as directed.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions

Reacts with strong alkali.

Reacts with strong acids and oxidizing agents.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products
(in case of fire or oxidation):

Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects
Acute toxicity:
LD/LC50 values that are relevant for classification:
ATE (Acute Toxicity Estimate)

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	3,640 mg/kg (rat)

Primary irritant effect:
on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed in groups 1, 2A, or 2B.

NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

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Behavior in environmental systems:**Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Do not allow product to reach ground water, water course or sewage system.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Used containers**Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

UN-Number**DOT/TDG, ADR, IMDG, IATA**

Not regulated

DOT/TDG, ADR, IMDG, IATA

Not regulated

DOT, IMDG, IATA**Hazard Classification:**

Not regulated

DOT/TDG, ADR, IMDG, IATA

Not regulated

Environmental hazards**Marine pollutant (according to IMDG):**

No

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

Not hazardous according to the above specifications.

IATA

IATA Dangerous Goods Regulation (DGR): latest edition

UN "Model Regulation":

Not regulated

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:**TSCA (Toxic Substances Control Act):**

All ingredients are listed on the U.S. TSCA inventory or exempt from premanufacture notice requirements.

Canadian substance listings:**Canadian Domestic Substances List (DSL): (Substances not listed.)**

All ingredients are listed.

Canadian Non Domestic Substances List (NDSL)

None of the ingredients is listed.

Canadian Environmental Protection Act (CEPA), Schedule 1:

All of the ingredients are listed.

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National Pollutant Release Inventory (NPRI)

None of the ingredients are listed.

National regulations: no further regulations.**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

H.R.2420 (RoHS):

This product fulfill the H.R.2420 requirements in that the EDEE Act regulated materials are absent or their concentrations are significantly below regulatory thresholds.

BSE/TSE:

Materials and/or synthetically modified materials which are of animal origin from bovine, ovine, goats, cats, dogs, deer, elk and/or mink, are NOT included in this product.

Department issuing SDS: Product Stewardship**Editor's notice:**

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RoHS: Restriction of Hazardous Substances

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substance of Very High Concern (REACH)

CLP: Classification, Labeling and Packaging (European GHS)

PBT: Persistent, Bioaccumulative and Toxic chemicals

vPvB: very Persistent and very Bioaccumulative chemicals

ATE: Acute Toxicity Estimate

*** Data compared to the previous version altered.**

The asterisk (*) on the left side indicate the respective changes from the previous version.