

according to Regulation (EC) No. 1907/2006

Version 1.0 Revision Date: 03.02.2016

1.1 Product identifier

Trade name : UMIMETAL SARATOGA -Hardener cd.57025001

Use of the Substance/Mixture : Hardener

Company	SARATOGA INT. SFORZA SPA
Address	Via Edison 76 20090 Trezzano s/Naviglio (MI) ITALIA
Telephone	+39 02 445731
Telefax	+39 02 44552742

| E-mail address of person responsible for the SOS | trading@saratogasforza.com |

Emergency telephone

CAV - Ospedale Pediatrico "Bambino Gesù" - Roma - Tel. +39 06 68593726 (h24)
CAV - Azienda Ospedaliero-Universitaria Foggia - Foggia - Tel. +39 0881 732326 (h24)
CAV - Azienda Ospedaliera "A. Cardarelli" - Napoli - Tel. +39 081 7472870 (h24)
CAV - Policlinico "Umberto I" - Roma - Tel. +39 06 4450618 (h24)
CAV - Policlinico "A. Gemelli" - Roma - Tel. +39 06 3054343 (h24)
CAV - Azienda Osp. "Careggi" U.O. Tossic. Medica - Firenze - Tel. +39 055 7947819(h24)
CAV - Centro Nazionale di Informazione Tossic. - Pavia - Tel. +39 0382 24444 (h24)
CAV - Ospedale "Niguarda Ca' Granda" - Milano - Tel. +39 02 66101029 (h24)
CAV - Azienda Ospedaliera "Papa Giovanni XXIII" - Bergamo - Tel. +39 800 883300 (h24)

2.1 Classification of the substance or mixture

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1	H318: Causes serious eye damage.
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Labeling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



SignalWord

Danger

Hazard Statements

H315

Causes skin irritation.

H318

Causes serious eye damage.

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local regulation

Hazardous ingredients which must be listed on the label:

2,4,6-tris(dimethylaminomethyl)phenol

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

Mixture

Hazardous ingredients

Chemical Name	GAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 01-2119560597-27	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Skin Sens. 1B; H317	≥ 3 - ≤ 7

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	No data is available on the product itself.
Unsuitable extinguishing media	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion	No data is available on the product itself.

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products

5.3 Advice for firefighters

Special protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.
Specific extinguishing methods	No data is available on the product itself.
Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Neutralize with acid.
Soak up with inert absorbent materials (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	Normal measures for preventive fire protection.
Hygiene measures	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Advice on common storage	Strong acids Strong bases Strong oxidizing agents
Storage class (TRGS 510)	12, Non Combustible Liquids
Recommended storage temperature	2 - 40 °C
Other data	No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment

Eye protection	Eye wash bottle with pure water Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.
Hand protection	
Material	butyl-rubber
Break through time	> 8 h Solvent-resistant gloves (butyl-rubber) Nitrile rubber 10-480 min Neoprene gloves
Remarks	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	liquid
Odor	characteristic

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pH	ca. 10, Concentration: 500 g/l (20 °C)
Flash point	ca. 137 °C Method: Pensky-Martens closed cup, closed cup
Density	1,14 g/cm ³ (20 °C) Method: DIN 51757
Solubility(ies) Water solubility	partly soluble (20 °C)
Autoignition temperature	> 300 °C Method: DIN Method, other
Viscosity Viscosity, dynamic	10.000 - 16.000 mPa.s (25 °C)

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid No data available

10.5 Incompatible materials

10.6 Hazardous decomposition products

Carbon oxides
Nitrogen oxides (NO_x)
Burning produces obnoxious and toxic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity - Product LD₅₀ (Rat): > 2.000 mg/kg

Acute inhalation toxicity No data available

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Acute dermal toxicity No data available

Acute toxicity (other routes of administration) No data available

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitization

Product:

Routes of exposure: Skin

Species: Guinea pig

Result: Does not cause skin sensitization.

Assessment: No data available

Germ cell mutagenicity

Ingredients:

2,4,6-tris(dimethylaminomethyl)phenol:

Genotoxicity in vitro

Concentration: 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: 2500 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo No data available

Carcinogenicity

No data available

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Carcinogenicity - Assessment	No data available
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Ingredients:

Effects on fertility

Application Route: Oral

Method: OECD Test Guideline 422

Remarks: No significant adverse effects were reported

Effects on fetal development	No data available
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Reproductive toxicity - Assessment	No data available
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No data available

No data available

Ingredients:

Species: Rat, male and ternale

No-observed-effect level: 15 mg/kg

Application Route: Ingestion

Exposure time: 1.032 h Number of exposures: 7 d

Method: Subacute toxicity

Repeated dose toxicity - Assessment	No data available
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No data available

General Information: No data available

Inhalation: No data available

Skin contact: No data available

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Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Ingredients:

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to fish LC50 (Cyprinus carpio (Carp)): 175 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water

Toxicity to daphnia and other LC50: 718 mg/l
aquatic invertebrates Exposure time: 96 h
Test Type: static test
Test substance: Marine water

Toxicity to algae ErC50 (Desmodesmus subspicatus (Scenedesmus
subspicatus)): 84 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Ecotoxicology Assessment
Chronic aquatic toxicity This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Ingredients:

2,4,6-tris(dimethylaminomethyl)phenol:

Biodegradability Inoculum: activated sludge
Concentration: 2 mg/l
Result: Not readily biodegradable.
Biodegradation: 4 %

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Exposure time: 28 d
Method: OECD Test Guideline 301 D

12.3 Bioaccumulative potential

Ingredients:

2,4,6-tris(dimethylaminomethyl)phenol:

Partition coefficient: n- log Pow: 0,219 (21,5 °C)
octanol/water Method: OPPTS 830.7550

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

Additional ecological
information

Remarks: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with
chemical or used container.
Send to a licensed waste management company.

Contaminated packaging

Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

IATA

Not regulated as a dangerous good

IMDG

Not regulated as a dangerous good

ADR

Not regulated as a dangerous good

RID

Not regulated as a dangerous good

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

Not applicable for products as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	Not applicable
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EU Voluntary monitoring list for non-scheduled substances (Drug Precursors)	Not applicable
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The ingredients of this product are reported in the following inventories:

CH INV	The mixture contains substances listed on the Swiss Inventory
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TSCA	On TSCA Inventory
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DSL	All components of this product are on the Canadian DSL.
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AICS	On the inventory, or in compliance with the inventory
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NZIoC	Not in compliance with the inventory
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ENCS	On the inventory, or in compliance with the inventory
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ISHL	On the inventory, or in compliance with the inventory
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KECI	Not in compliance with the inventory
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PICCS	On the inventory, or in compliance with the inventory
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IECSC	On the inventory, or in compliance with the inventory
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Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (**New** Zealand), PICCS (Philippines), TSCA (USA)

15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of H-Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE. THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE **ONLY** HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.