

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.01.2020

Version number 44

Revision: 29.01.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: **Ammonia No.1**

Catalog number: 00512581, 512580BT, 512581BT, 4512580BT, 4512581BT, 00512589BT

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the preparation: Reagent for water analysis

1.3 Details of the supplier of the safety data sheet

Supplier:

Tintometer India Private Limited
Door No. 7-2-C-14, 2nd, 3rd & 4th Floor
Sanath Nagar Industrial Estate,
Hyderabad TG 500018
INDIA

Informing department: indiaoffice@tintometer.com

1.4 Emergency telephone number:

040-23883300, Toll Free Number: 1800 599 3891 (sales)
Languages: Hindi & English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



health hazard

Repr. 2 H361d Suspected of damaging the unborn child.



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05



GHS07



GHS08

Signal word Danger

Hazard-determining components of labelling:

salicylic acid

sodium nitroprusside dihydrate

Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

Precautionary statements

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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P405 Store locked up.

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- **2.3 Other hazards** No further relevant information available.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of organic and inorganic compounds

- **Dangerous components:**

CAS: 69-72-7 EINECS: 200-712-3 Index No: 607-732-00-5	salicylic acid ⚠ Repr. 2, H361d; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	20–30%
CAS: 13755-38-9 EINECS: 238-373-9	sodium nitroprusside dihydrate ⚠ Acute Tox. 3, H301	2.5–5%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information** Instantly remove any clothing soiled by the product.

- **After inhalation** Supply fresh air and call for doctor for safety reasons.

- **After skin contact**

Instantly rinse with water.

Get medical advice/attention.

- **After eye contact**

Rinse opened eye for several minutes (at least 15 min) under running water.

Call a doctor immediately.

- **After swallowing**

Rinse out mouth and then drink 1-2 glasses of water.

Seek medical treatment.

- **4.2 Most important symptoms and effects, both acute and delayed:**

irritations

after inhalation:

mucous membrane irritation

coughing

breathing difficulty

after swallowing:

absorption

sickness

vomiting

dizziness

after absorption of large amounts:

cardiovascular disorders

drop in blood pressure

cramps

- **Danger**

Danger of system failure.

Danger of disturbed cardiac rhythm.

- **4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

- **5.2 Special hazards arising from the substance or mixture**

The product is not combustible.

Formation of toxic gases is possible during heating or in case of fire.

nitrous gases

Hydrogen chloride (HCl)

Hydrogen cyanide (HCN)

Dipotassium oxide

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Sodium monoxide

- **5.3 Advice for firefighters**

- **Protective equipment:**

- Wear self-contained breathing apparatus.

- Wear full protective suit.

- **Additional information**

- Collect contaminated fire fighting water separately. It must not enter drains.

- Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

- Ambient fire may liberate hazardous vapours.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

- **Advice for non-emergency personnel:**

- Wear protective equipment. Keep unprotected persons away.

- Avoid substance contact.

- Ensure adequate ventilation

- **Advice for emergency responders:** Protective equipment: see section 8

- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.

- **6.3 Methods and material for containment and cleaning up:**

- Ensure adequate ventilation.

- Collect mechanically.

- Dispose of contaminated material as waste according to item 13.

- **6.4 Reference to other sections**

- See Section 8 for information on personal protection equipment.

- See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

- **Advice on safe handling:** Provide suction extractors if dust is formed.

- **Hygiene measures:**

- Do not get in eyes, on skin, or on clothing.

- Take off immediately all contaminated clothing.

- Store protective clothing separately.

- Wash hands during breaks and at the end of the work.

- Do not eat, drink or smoke when using this product.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and containers:** Store in cool location.

- **Information about storage in one common storage facility:**

- Do not store together with acids.

- Store away from oxidising agents.

- **Further information about storage conditions:**

- Store in a locked cabinet or with access restricted to technical experts or their assistants.

- Protect from heat and direct sunlight.

- Protect from the effects of light.

- Store under dry conditions.

- Protect from humidity and keep away from water.

- **Recommended storage temperature:** 20°C +/- 5°C

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

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Components with limit values that require monitoring 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 compilation were used as basis.

- **Engineering measures:**

- Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

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See item 7.

Personal protective equipment

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.

- **Recommended filter device for short term use:** Filter P2

Protection of hands:

Protective gloves.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves

nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm**Penetration time of glove material**

Value for the permeation: Level = 1 (< 10 min)

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

- **Eye protection:** Tightly sealed safety glasses.

- **Body protection:** Protective work clothing.

- **Limitation and supervision of exposure into the environment:** Do not allow product to reach sewage system or water bodies.

SECTION 9: Physical and chemical properties

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

Form / Physical state:	Tablets
Colour:	Pink

Odour:	Odourless
Odour threshold:	Not applicable

pH-value (11.9 g/l) at 20°C:	2.3
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Melting point/Freezing point:	Not determined
Initial boiling point and boiling range:	Not determined

Flash point:	Not applicable
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Flammability (solid, gas):	The product is not combustible.
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Decomposition temperature:	Not determined.
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Auto-ignition temperature:	Product is not self-igniting.
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Explosive properties:	Product is not explosive.
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Flammability or explosive limits:

Lower:	Not applicable
Upper:	Not applicable

Oxidising properties:	none
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Vapour pressure:	Not applicable.
Density at 20°C:	1.83 g/cm ³
Relative density:	Not determined.
Vapour density:	Not applicable.
Evaporation rate:	Not applicable.

Solubility(ies):

Water:	Soluble
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Partition coefficient: n-octanol/water:	Not applicable.
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Viscosity:	Not applicable.
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Solvent content:

Solids content:	100.0 %
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9.2 Other information	No further relevant information available.
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SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability**
Stable at ambient temperature (room temperature).
sensitivity to light
- **10.3 Possibility of hazardous reactions**
Contact with acids releases toxic gases
Reacts with strong oxidizing agents
--> forms heat
- **10.4 Conditions to avoid** Strong heating (decomposition)
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
hydrogen cyanide (prussic acid HCN)
In case of fire: see section 5.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Classification according to calculation procedure:
Harmful if swallowed.

Acute toxicity estimate (ATE_(MX)) - Calculation method:		
Oral	CLP ATE _(MX)	1339 mg/kg (.)

LD/LC50 values that are relevant for classification:		
CAS: 69-72-7 salicylic acid		
Oral	LD50	891 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)
Inhalative	LC ₀	>0.225 mg/l (rat) (4h (LC))
	LC50	>0.9 mg/l/1h (rat) (dust, aerosol)
CAS: 13755-38-9 sodium nitroprusside dihydrate		
Oral	LD50	99 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye damage.
Risk of corneal clouding.

Information on components:		
CAS: 69-72-7 salicylic acid		
Irritation of skin	OECD 404	(rabbit: slight irritation) (IUCLID)
Irritation of eyes	OECD 405	(rabbit: severe irritations) (IUCLID)

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Information on components:		
CAS 69-72-7: Sensitization possible in predisposed persons.		
CAS: 69-72-7 salicylic acid		
Sensitisation	OECD 406	(negative) (IUCLID)

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** The following statements refer to the mixture:
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
Suspected of damaging fertility or the unborn child.
Suspected of damaging the unborn child.
- **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.

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- **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **Additional toxicological information:**

The following complies to cyanogen compounds / nitriles in general:

Utmost caution! Release of hydrocyanic acid is possible - blockade of cellular respiration.

Other dangerous properties can not be excluded.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

CAS: 69-72-7 salicylic acid

LC50 90 mg/l/48h (gold orfe) (DIN 38412 Teil 15)

EC50 230 mg/l/24h (Daphnia magna) (OECD 202)

CAS: 13755-38-9 sodium nitroprusside dihydrate

EC50 1 mg/l/24h (Daphnia magna)

LC50 0.05 mg/l (fish)

- **Other information:**

Toxic for fish:

the following applies to dissolved iron compounds in general:

toxic as from 0.9 mg/l at pH 6.5 - 7.5

lethal as from 1.0 mg/l at pH 5.5 - 6.7

- **12.2 Persistence and degradability**

CAS: 69-72-7 salicylic acid

OECD 301 C 88 % / 15 d (readily biodegradable) (Modified MITI Test)

- **12.3 Bioaccumulative potential**

Pow = n-octanol/wasser partition coefficient

log Pow 1-3 = Not worth-mentioning accumulating in organisms.

CAS: 69-72-7 salicylic acid

log Pow 2.26 (.) (experimental)

- **12.4 Mobility in soil** No further relevant information available.

- **12.6 Other adverse effects** Avoid transfer into the environment.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

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

Hand over to disposers of hazardous waste.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA**

Void

- **14.2 UN proper shipping name**

- **ADR, IMDG, IATA**

Void

- **14.3 Transport hazard class(es)**

- **ADR, IMDG, IATA**

- **Class**

Void

- **14.4 Packing group**

- **ADR, IMDG, IATA**

Void

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· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Information about limitation of use:**
Employment restrictions concerning pregnant and lactating women must be observed (92/85/EEC).
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H318 Causes serious eye damage.
 H361d Suspected of damaging the unborn child.

- **Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development
 STOT: specific target organ toxicity
 SE: single exposure
 RE: repeated exposure
 EC50: half maximal effective concentration
 IC50: half maximal inhibitory concentration
 NOEL or NOEC: No Observed Effect Level or Concentration
 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
 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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Acute Tox. 3: Acute toxicity - oral – Category 3
 Acute Tox. 4: Acute toxicity - oral – Category 4
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Repr. 2: Reproductive toxicity – Category 2

- **Sources**

Data arise from safety data sheets, reference works and literature.
 ECHA: European CHemicals Agency <http://echa.europa.eu>
 GESTIS- Stoffdatenbank (Substance Database, Germany)
 IUCLID (International Uniform Chemical Information Database)
 RTECS (Registry of Toxic Effects of Chemical Substances)

- * Data compared to the previous version altered.