

Одноэлементные растворы ICP

Технические характеристики

Виды товаров: одноэлементные стандартные растворы, алюминия, сурьмы, мышьяка, бария, бериллия, висмута, бора, кадмия, кальция, церия, цезия, хрома, кобальта, меди, эрбия, гадолиния, галлия, германия, гафния, индия, железа, лантана и др.

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: hsf@nt-rt.ru || сайт: <https://hplc.nt-rt.ru/>

Icp Single Element Standard Solution



CODE	PRODUCT NAME	CAS NO.
ICP006	Aluminium ICP Standard Solution	
ICP007	Aluminium ICP Standard Solution 10000 ppm TRISTAR Single Element in HNO ₃	
ICP004	Aluminium ICP Standard Solution 1000 ppm TRISTAR Single Element in HCl	
ICP005	Aluminium ICP Standard Solution 10000 ppm TRISTAR Single Element in HCl	
ICP008	Antimony ICP Standard Solution	
ICP911	Antimony ICP Standard Solution 1000 ppm TRISTAR Single Element in HCl	
ICP913	Antimony ICP Standard Solution 10000 ppm TRISTAR Single Element in HCl	
ICP009	Antimony ICP Standard Solution 10000 ppm TRISTAR Single Element in HNO ₃	
ICP010	Arsenic ICP Standard Solution	
ICP011	Arsenic ICP-MS Standard Solution	
ICP012	Barium ICP Standard Solution	

ICP915	Barium ICP Standard Solution 1000 ppm TRISTAR Single Element in HCl
ICP916	Barium ICP Standard Solution 10000 ppm TRISTAR Single Element in HCl
ICP013	Barium ICP-MS Standard Solution
ICP014	Beryllium ICP Standard Solution 1000 ppm TRISTAR Single Element in HNO ₃
ICP015	Bismuth ICP Standard Solution
ICP019	Boron ICP Standard Solution
ICP025	Cadmium ICP Standard Solution
ICP024	Cadmium ICP Standard Solution 10000 ppm TRISTAR Single Element in HNO ₃
ICP029	Calcium ICP Standard Solution
ICP031	Calcium ICP Standard Solution 1000 ppm TRISTAR Single Element in HCl
ICP032	Calcium ICP Standard Solution 10000 ppm TRISTAR Single Element in HCl
ICP030	Calcium ICP-MS Standard Solution
ICP033	Cerium ICP Standard Solution 1000 ppm TRISTAR Single Element in HNO ₃
ICP034	Cerium ICP Standard Solution 10000 ppm TRISTAR Single Element in HNO ₃
ICP036	Cesium ICP Standard Solution
ICP035	Cesium ICP Standard Solution 10000 ppm TRISTAR Single Element in HNO ₃

ICP040	Chromium ICP Standard Solution
ICP042	Chromium ICP Standard Solution 1000 ppm TRISTAR Single Element in HCl
ICP043	Chromium ICP Standard Solution 10000 ppm TRISTAR Single Element in HCl
ICP041	Chromium ICP Standard Solution 10000 ppm TRISTAR Single Element in HNO ₃
ICP051	Cobalt ICP Standard Solution
ICP046	Cobalt ICP Standard Solution 10000 ppm TRISTAR Single Element in HNO ₃
ICP061	Copper ICP Standard Solution
ICP062	Copper ICP-MS Standard Solution
ICP065	Erbium ICP Standard Solution 1000 ppm TRISTAR Single Element in HNO ₃
ICP067	Europium ICP Standard Solution 1000ppm TRISTAR Single Element in HNO ₃
ICP969	Gadolinium ICP Standard Solution 1000 ppm TRISTAR Single Element in HNO ₃
ICP975	Gallium ICP Standard Solution 1000ppm TRISTAR Single Element in HNO ₃
ICP980	Germanium ICP Standard Solution 1000 ppm TRISTAR Single Element in HNO ₃ +HF
ICP070	Gold ICP Standard Solution
ICP071	Gold ICP-MS Standard Solution
ICP074	Hafnium ICP Standard Solution 1000 ppm TRISTAR Single Element in HF

ICP077	Holmium ICP Standard Solution 1000ppm TRISTAR Single Element in HNO ₃
ICP081	Indium ICP Standard Solution
ICP084	Iron ICP Standard Solution
ICP087	Iron ICP Standard Solution 10000ppm TRISTAR Single Element in HCl
ICP085	Iron ICP Standard Solution 10000ppm TRISTAR Single Element in HNO ₃
ICP086	Iron ICP Standard Solution 1000ppm TRISTAR Single Element in HCl
ICP091	Lanthanum ICP Standard Solution

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Gold ICP Standard Solution
Cat No.	ICP070
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	Substance
Synonym	-
Chemical Formula	-

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.

Safety Phrases	S24/25 Avoid contact with skin and eyes.
----------------	--

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid Gold
Odour	Odourless
Odour Threshold	no data available
pH	Ca 0 at 20 °C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	Strong bases, Strong oxidizing agents
Hazardous decomposition products	no data available
Conditions to avoid	Strong heating (decomposition).

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	Rabbit Result: No irritation
Serious eye damage/irritation	Rabbit Result: No eye irritation
Respiratory/skin sensitization	Patch test: human Result: negative
Germ cell mutagenicity	Genotoxicity in vitro Ames test Result: negative
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	MA8050000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	LC50 Carassius auratus (goldfish): > 5,000 mg/l; 24 h
Toxicity to daphnia and other aquatic invertebrates	EC5 E.sulcatum: 3,200 mg/l; 72 h
Persistence/degradation	Biodegradability 63 %; 14 d Readily biodegradable
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	3264
Proper shipping name	HYDROCHLORIC ACID
Hazard class	8
Packaging group	III

SECTION 15: REGULATORY INFORMATION

Material Safety Data Sheet

Chemistry beyond chemicals



This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Calcium ICP Standard solution
Cat No.	ICP029
CAS-No.	-
M.W.	-
EC-No.	-
Company	-
Email	-

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	Mixture
Synonym	-
Chemical Formula	-

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral	Category 4
Acute toxicity, Inhalation	Category 4
Acute toxicity, Dermal	Category 4
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols



Signal word

Warning

Hazard statement (s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statement (s)

P280 Wear eye protection/ face 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.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	no data available
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid, colourless
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	Soluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	No data available
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available

Material Safety Data Sheet

Chemistry beyond chemicals



Respiratory/skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity	Single exposure: No data available
Specific target organ toxicity	Repeated exposure: No data available
Aspiration hazard	No data available
RTECS	No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence/degradation	No data available
Environmental	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	3264
Proper shipping name	Corrosive liquid, Acidic , Inorganic , N.O.S(Nitric Acid)
Hazard class	8
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Cadmium ICP Standard Solution
Cat No. ICP025
CAS-No. -
M.W. -
EC-No. -
Company -
Email -

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. -
Percent 1000 ppm
Substance/Mixture Mixture
Synonym -
Chemical Formula -

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Corrosive to metals	Category 1
Skin irritation	Category 2
Eye irritation	Category 2
Carcinogenicity	Category 1B
Chronic aquatic toxicity	Category 3

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H350 May cause cancer.
H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention
P201 Obtain special instructions before use.
P273 Avoid release to the environment.
Response
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.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards no data available
Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Material Safety Data Sheet

Chemistry beyond chemicals



Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance clear liquid

Odour Odourless

Odour Threshold no data available

pH ca. 0.5 at 20 °C

Melting/freezing point no data available

Boiling point/range no data available

Flash point no data available

Evaporation rate no data available

Vapour pressure no data available

Vapour density no data available

Relative density no data available

Water solubility at 20 °C soluble

LogPow no data available

Auto-ignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties no data available

Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability The product is chemically stable under standard ambient conditions (room temperature).

Incompatibilities Metals, metal alloys, Cellulose.

Hazardous decomposition products no data available

Conditions to avoid no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Mixture causes skin irritation.

Serious eye damage/irritation Mixture causes serious eye irritation.

Respiratory/skin sensitization no data available

Germ cell mutagenicity no data available

Carcinogenicity no data available

Reproductive toxicity no data available

Specific target organ toxicity Single exposure: no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish	no data available
------------------	-------------------

Toxicity to daphnia and	no data available
-------------------------	-------------------

other aquatic invertebrates	
-----------------------------	--

Persistence/degradation	no data available
--------------------------------	-------------------

Environmental	no data available
----------------------	-------------------

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	3264
------------------	------

Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONT. NITRIC ACID SOLUTION)
-----------------------------	--

Hazard class	8
---------------------	---

Packaging group	III
------------------------	-----

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Boron ICP Standard Solution
Cat No.	ICP019
CAS-No.	-
M.W.	-
EC-No.	-
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	-
Percent	-
Substance/Mixture	Mixture
Synonym	-
Chemical Formula	-

SECTION 3: HAZARDS IDENTIFICATION

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Nitrogen oxides (NO _x)
Advice for firefighters	Wear personal protective equipment for firefighting if necessary.
Further information	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid, Colourless
Odour	Odourless

Material Safety Data Sheet

Chemistry beyond chemicals



Odour Threshold	no data available
pH	Ca.4 at 20°C
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Gives off hydrogen by reaction with metals.
Hazardous decomposition	
Products	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx)
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous Goods
Hazard class	-
Packaging group	-

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name	Bismuth ICP Standard Solution
Cat No.	ICP015
CAS-No.	7440-69-9
M.W.	208.98
EC-No.	231-177-4
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	7440-69-9
Percent	-
Substance/Mixture	Mixture
Synonym	-
Chemical Formula	Bi

SECTION 3: HAZARDS IDENTIFICATION

This product is not classified as dangerous or hazardous substance/mixture.



PICTOGRAMS OR HAZARD SYMBOLS

SECTION 4: FIRST AID MEASURES

Inhalation	If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact	Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact	Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards	Carbon oxides.
Advice for firefighters	Wear personal protective equipment for fire fighting if necessary.
Further information	Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions	Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition	Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Material Safety Data Sheet

Chemistry beyond chemicals



Skin and Body Protection Respiratory protection

Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid, metallic
Odour	odourless
Odour Threshold	no data available
pH	no data available
Melting/freezing point	271°C
Boiling point/range	1564°C at 1013 hPa
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	1hPa at 840°C
Vapour density	no data available
Relative density	9.78g/cm ³ at 20°C
Water solubility	at 20°C insoluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	The product is chemically stable under standard ambient conditions (room temperature).
Incompatibilities	Strong oxidizing agents
Hazardous decomposition	carbon oxides
Products	
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available.
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	no data available
Specific target organ toxicity	no data available
Aspiration hazard	no data available
RTECS	no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish:	no data available
Toxicity to daphnia and other aquatic invertebrates:	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	3264
Proper shipping name	Not a dangerous goods
Hazard class	8
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Barium ICP Standard Solution
Cat No. ICP013
CAS-No. -
M.W. -
EC-No. -
Company -
Email -

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. -
Percent 10000 ppm
Substance/Mixture Mixture
Synonym -
Chemical Formula -

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Corrosive to metals (Category 1)
Skin irritation (Category 2)
Eye irritation (Category 2)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Nitrogen oxides (NO_x)
Advice for firefighters Wear personal protective equipment for firefighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection Face shield and safety glasses, if required.

Material Safety Data Sheet

Chemistry beyond chemicals



Hand protection
Skin and Body Protection
Respiratory protection

Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Impervious protective clothing and boots, if required.
Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clear liquid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1.010 g/cm ³
Water solubility	soluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	no data available
Hazardous decomposition	
Products	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx)
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure : no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.
There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Material Safety Data Sheet

Chemistry beyond chemicals



UN number	3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(CONT. NITRIC ACID SOLUTION)
Hazard class	8
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture : no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Barium ICP Standard Solution
Cat No. ICP012
CAS-No. -
M.W. -
EC-No. -
Company -
Email -

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. -
Percent 1000 ppm
Substance/Mixture Mixture
Synonym -
Chemical Formula -

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Corrosive to metals (Category 1)
Skin irritation (Category 2)
Eye irritation (Category 2)

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing. Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water. Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Nitrogen oxides (NOx)
Advice for firefighters Wear personal protective equipment for firefighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clear liquid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1.010 g/cm ³
Water solubility	soluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	no data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Gives off hydrogen by reaction with metals.
Hazardous decomposition Products	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx)
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity to fish	no data available
Toxicity to daphnia and other aquatic invertebrates	no data available
Persistence/degradation	no data available
Environmental	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	3264
Proper shipping name	Barium ICP Standard Solution
Hazard class	8
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Aluminium ICP Standard Solution (1000ppm TRISTAR Single Element)
Cat No. ICP006
CAS-No. -
M.W. -
EC-No. -
Company -
Email -

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -
CAS No. -
Percent 1000 ppm
Substance/Mixture Mixture
Synonym -
Chemical Formula -

SECTION 3: HAZARDS IDENTIFICATION GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Warning

Hazard statement(s)
H290 May be corrosive to metals

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

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.
Get medical advice.
Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.
Get medical advice.
Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.
Get medical advice.
Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards Nitrogen oxides(NOx), Aluminum oxide
Advice for firefighters Wear personal protective equipment for firefighting if necessary.
Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Remove all sources of ignition.
Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.
Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up Absorb/Contain spillage in a suitable absorbent (eg. Dry powder, rag, saw-dust), the collected material shall be placed in a container for disposal according to appropriate laws and regulations.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Material Safety Data Sheet

Chemistry beyond chemicals



Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene and safety practice should be followed. Wash hands after handling the product.
Eye/face protection	Face shield and safety glasses, if required.
Hand protection	Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.
Skin and Body Protection	Impervious protective clothing and boots, if required.
Respiratory protection	Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	clear colourless liquid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting/freezing point	no data available
Boiling point/range	no data available
Flash point	no data available
Evaporation rate	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	abt. 1.00g
Water solubility	soluble
LogPow	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No data available
Stability	Stable under recommended storage conditions.
Incompatibilities	Strong oxidizing agents
Hazardous decomposition products	Nitrogen oxides (NO _x), Aluminum oxide
Conditions to avoid	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	no data available
Serious eye damage/irritation	no data available
Respiratory/skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity	Single exposure: no data available
Specific target organ toxicity	Repeated exposure: no data available
Aspiration hazard	no data available
RTECS	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	no data available
Persistence/degradation	no data available
Environmental	no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations. There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a

Material Safety Data Sheet

Chemistry beyond chemicals



hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number	3264
Proper shipping name	CORROSIVELIQUID,ACIDIC,INORGANIC,N.O.S.
Hazard class	8
Packaging group	III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

The above information contained herewith is believed to be accurate. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. This document does not represent any guarantee of the properties of the product. HPLC shall not be held liable for any claims, losses, or damages resulting from handling or from contact with the above product.

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: hsf@nt-rt.ru || сайт: <https://hplc.nt-rt.ru/>