

Ферменты и коферменты COE, ENZ

Технические характеристики

Виды товаров: аденозин, динатриевая соль аденозин-5-дифосфата, аденозин-5-дифосфат монокалийная соль дигидрат, динатриевая соль аденозин-5-трифосфата, целлюлаза, холестеролоксидаза, глюкозооксидаза, липопротеинлипаза, пектиназа, пероксидаза из хрена, уриказы, ксиланаз, тетранатриевая соль β -никотинамидадениндинуклеотидфосфата восстановленная, β -никотинамидадениндинуклеотид свободная кислота, динатриевая соль β -никотинамидадениндинуклеотидфосфата, β -никотинамидадениндинуклеотид восстановленный 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
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Вологда (8172)26-41-59
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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
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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

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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
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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

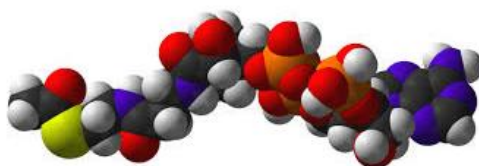
Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

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

Enzymes And Coenzymes



CODE	PRODUCT NAME	CAS NO.
COE005	Adenosine for Biochemistry	58-61-7
COE007	Adenosine-5-Diphosphate Disodium Salt for Biochemistry	16178-48-6
COE006	Adenosine-5-Diphosphate Mono Potassium Salt Dihydrate	72696-48-1
COE010	Adenosine-5-Triphosphate Disodium Salt for Biochemistry	987-65-5
ENZ016	Cellulase for Biochemistry	9012-54-8
ENZ023	Cholesterol Oxidase from Microorganism	9028-76-6
ENZ054	Glucose Oxidase (GOD)	9001-37-0
ENZ094	Lipoprotein Lipase from Pseudomonas	9004-02-8
ENZ107	Pectinase for Biochemistry	9032-75-1
ENZ111	Peroxidase from Horseradish	9003-99-0
ENZ179	Uricase from Bacillus sp.	9002-12-4
ENZ201	Xylanase for Biochemistry	37278-89-0
COE156	β -Nicotinamide-Adenine Dinucleotide Phosphate Tetrasodium Salt Reduced	2646-71-1
COE151	β -Nicotinamide-adenine Dinucleotide Free acid for Biochemistry	53-84-9
COE155	β -Nicotinamide-Adenine Dinucleotide Phosphate Disodium Salt for Biochemistry	24292-60-2
COE153	β -Nicotinamide-adenine Dinucleotide Reduced	606-68-8

Material Safety Data Sheet

Chemistry beyond chemicals



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

Chemical name	Cellulase for Biochemistry
Cat No.	ENZ016
CAS-No.	9012-54-8
M.W.	-
EC-No.	232-734-4
Company	
Email	

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	9012-54-8
Percent	-
Substance/Mixture	Substance
Synonym	1,4-beta -D-Endoglucanase
Chemical Formula	-

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Respiratory sensitisation Category 1

GHS LABEL ELEMENTS



Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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	Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
Advice for firefighters	Wear personal protective equipment for fire fighting 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.

Material Safety Data Sheet

Chemistry beyond chemicals



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. Keep in dry place at 0 to 4°C

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

Solid, beige

Odour

Odourless

Odour Threshold

Not applicable

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

at 25°C soluble

LogPow

no data available

Auto-ignition temperature

no data available

Decomposition temperature

no data available

Viscosity

no data available

Explosive properties

Not classified as explosive.

Oxidizing properties

none

SECTION 10: STABILITY AND REACTIVITY

Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Stability

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

Incompatibilities

no data available

Hazardous decomposition products

no data available

Conditions to avoid

no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity LD50 Rat: > 2,880 mg/kg
Acute inhalation toxicity LC50 Rat: > 4.86 mg/l; 4 h ; aerosol

Skin corrosion/irritation

Rabbit Result: No irritation

Serious eye damage/irritation

Rabbit Result: No eye irritation

Respiratory/skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Ames test Escherichia coli/Salmonella typhimurium Result: negative

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

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	semi-static test LC50 Oncorhynchus mykiss (rainbow trout): > 100 mg/l; 96 h
Toxicity to daphnia and other aquatic invertebrates	static test EC50 Daphnia magna (Water flea): > 100 mg/l; 48 h
Toxicity to algae	static test EC50 Pseudokirchneriella subcapitata (green algae): >= 100 mg/l; 72 h

Persistence/degradation Biodegradability ; 28 d; aerobic
Readily biodegradable

Environmental Discharge into the environment must be avoided.

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

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	Adenosine- 5-Triphosphate Disodium Salt Trihydrate
Cat No.	COE010
CAS-No.	34369-07-8
M.W.	605.19
EC-No.	-

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	34369-07-8
Percent	98.5%
Substance/Mixture	Substance
Synonym	ATP- $\text{Na}_2\text{3H}_2\text{O}$
Chemical Formula	$\text{C}_{10}\text{H}_{14}\text{N}_5\text{Na}_2\text{O}_{13}\text{P}_3 \cdot 3\text{H}_2\text{O}$

SECTION 3: HAZARDS IDENTIFICATION

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

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

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	A white powder
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
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
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.

Material Safety Data Sheet

Chemistry beyond chemicals



■ SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
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

■ SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

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Material Safety Data Sheet

Chemistry beyond chemicals



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

Chemical name	Adenosine-5-Diphosphate Disodium Salt
Cat No.	COE007
CAS-No.	16178-48-6
M.W.	471.16
EC-No.	-

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	16178-48-6
Percent	96.0%
Substance/Mixture	Substance
Synonym	ADP-Na ₂ , 5'-ADP-Na ₂
Chemical Formula	C ₁₀ H ₁₃ N ₅ O ₁₀ P ₂ Na ₂

SECTION 3: HAZARDS IDENTIFICATION

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

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

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	A white crystalline powder
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
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
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.

Material Safety Data Sheet

Chemistry beyond chemicals



SECTION 14: TRANSPORT INFORMATION

UN number	-
Proper shipping name	Not Dangerous good
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

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

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Material Safety Data Sheet

Chemistry beyond chemicals



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

Chemical name	Adenosine -5-Diphosphate Mono Potassium Salt Dihydrate
Cat No.	COE006
CAS-No.	72696-48-1
M.W.	501.32
EC-No.	-

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	72696-48-1
Percent	95%
Substance/Mixture	Mixture
Synonym	(ADP-K 2H ₂ O)
Chemical Formula	C ₁₀ H ₁₄ N ₅ O ₁₀ P ₂ K.2H ₂ O

SECTION 3: HAZARDS IDENTIFICATION

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

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
Advice for firefighters	Wear personal protective equipment for fire fighting 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	Colourless crystals.
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	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	Ammonia solution itself is not flammable, but can form an ignitable ammonia/air-mixture by outgassing.
Incompatibilities	Aluminium, Lead, Nickel, silver, Zinc, Copper, metal alloys, various metals
Hazardous decomposition products	Nitrogen oxides
Conditions to avoid	Heating

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	Rabbit Result: Severe irritations
Serious eye damage/irritation	Rabbit Result: Severe irritations
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: Mixture may cause respiratory irritation.
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	Biodegradability Not 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	-
Proper shipping name	Not dangerous goods
Hazard class	-
Packaging group	-

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	Adenosine for Biochemistry
Cat No.	COE005
CAS-No.	58-61-7
M.W.	267.24
EC-No.	200-389-9

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	-
CAS No.	58-61-7
Percent	98.5%
Substance/Mixture	Substance
Synonym	9-beta-D-Ribofuranosyladenine; Adenine riboside; Adenine-9-beta-D-ribofuranoside
Chemical Formula	C ₁₀ H ₁₃ N ₅ O ₄

SECTION 3: HAZARDS IDENTIFICATION

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

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, 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. Keep in dry place at 0 to 4°C

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	white crystalline powder
Odour	no data available

Material Safety Data Sheet

Chemistry beyond chemicals



Odour Threshold	no data available
pH	no data available
Melting/freezing point	234 - 236 °C
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	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides, 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
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SECTION 15: REGULATORY INFORMATION

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

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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/>