Chemical Safety Data Sheet MSDS / SDS

ADENOSINE 5'-TRIPHOSPHATE DISODIUM SAL&

Revision Date:2025-05-17 Revision Number:1

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

Product identifier

Product name	: ADENOSINE 5'-TRIPHOSPHATE DISODIUM SAL&
CBnumber	: CB0500025
CAS	: 34369-07-8
EINECS Number	: 213-579-1
Synonyms	: Adenosine 5'-triphosphate disodium salt hydrate, Adenosine disodium triphosphate hydrate
Relevant identified uses of the s	substance or mixture and uses advised against
Relevant identified uses	: For R&D use only. Not for medicinal, household or other use.
Uses advised against	: none
Company Identification	
Company	: Chemicalbook
Address	: Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing
Telephone	: 400-158-6606

SECTION 2: Hazards identification

GHS Label elements, including precautionary statements

Signal word	no data available
Hazard statement(s)	
no data available	
Prevention	
no data available	
Response	
no data available	
Storage	
no data available	
Disposal	
no data available	

SECTION 3: Composition/information on ingredients

Substance

Product name	: ADENOSINE 5'-TRIPHOSPHATE DISODIUM SAL&
Synonyms	: Adenosine 5'-triphosphate disodium salt hydrate, Adenosine disodium triphosphate hydrate
CAS	: 34369-07-8
EC number	: 213-579-1
MF	: C10H19N5NaO14P3
MW	: 549.19

SECTION 4: First aid measures

Description of first aid measures

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Oxides of phosphorus Sodium oxides Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire. Risk of dust explosion.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the

ground water system.

NFPA 704

0	0 ×	
HEALTH	0	Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials
FIRE	0	Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5 minutes.(e.g. Carbon tetrachloride)
REACT	1	Normally stable, but can become unstable at elevated temperatures and pressures (e.g. propene)
SPEC. HAZ.		

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Storage stability

Recommended storage temperature -20 °C

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

control parameter

Hazard composition and occupational exposure limits

Does not contain substances with occupational exposure limits.

Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety

glasses

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other

accompanying standards relating to the used respiratory protection system.

Recommended Filter type: Filter type P1

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the

instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physicochemical properties

Appearance	white powder	
Odour	No data available	
Odour Threshold	No data available	
рН	No data available	
Melting point/freezing point	176 °C (dec.)(lit.)	

Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive	No data available
limits	
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	H2O: soluble50mg/mL, clear, colorless
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Explosive properties	No data available
Oxidizing properties	No data available

Other safety information

No data available

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.

Chemical stability

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

Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

Conditions to avoid

no information available

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

Aute toxicity LSD Oral - Rat - Genate - > 2.000 mg/kg (DECD Test Guideline 423) Remarks: (in analogy to similar compounds)The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Financesonfurtation Security in sominitration - 15 min (DECD Test Guideline 439) Remarks: (in analogy to the following substances: adenosine 5'-triphosphate disodium salt Foreign equitation A data available Partory or skin sensitization No data available Partory or skin sensitization A data available Partory: Escherichia col/Salmonella typhimurium Matabolic activation: with and without metabolic activation Method: DECD Test Guideline 430 Admin engline Main: negline Remarks: (in analogy to the following substances: adenosine 5'-triphosphate disodium salt Partory or skin sensitization In trabe is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Partory in analogy to the following substances: adenosine 5'-triphosphate disodium salt Granewise In analogy to the following substances: adenosine 5'-triphosphate disodium salt Partory oran disol go tomalogy to the following substances: adenosine 5'-triphosphate disodium salt Admin engline Admin engline	Information on toxicological effects
Remarks: (in analogy to similar compounds)The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 15 min (OECD Test Guideline 439) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Serious eye damage/eye irritation No data available Germart Inutagenicity No data available Germarts: (in analogy to similar products) Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 4371 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carinogenicity No data available Remarks: (in analogy to similar products) The value is given in analogy to similar products) The value is given in analogy to similar products) No data available Germodutive toxicity No data available Reproductive toxicity No data available Specific target organ toxicity - single exposure No data availabl	Acute toxicity
Skin corresion/iritation Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 15 min (OECD Test Guideline 439) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Serious eye damage/eye irritation No data available Reparatory or skin sensitization No data available Germ cell mutagenicity No data available Test system: Escherichia coll/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to similar products) The value is given in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Cariongenicity 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 Specific target organ toxicity - repeated exposure No data available	LD50 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 423)
Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 15 min (OECD Test Guideline 439) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Serious eye damage/eye irritation No data available Remark: (in analogy to similar products) No data available Gern cell mutagenicity No data available Test Type: Ames test Test Type: Ames test Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt 471 Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Gracinogenicity No data available Guada ava	Remarks: (in analogy to similar compounds) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt
Result: No skin irritation - 15 min (OECD Test Guideline 439) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Serious eye damage/eye irritation No data available Result: No sinilar products) No data available Germ cell mutagenicity No data available Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Perfort toxicity No data available Garcinogenicity No data available Perfort toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available	Skin corrosion/irritation
Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Serious eye damage/eye irritation No data available Remarks: (in analogy to skin sensitization No data available Germ cell mutagenicity No data available Test Type: Ames test Result: negative Remarks: (in analogy to skinal products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Perioductive toxicity No data available Gracinogenicity No data available Perioductive toxicity No data available Gracinogenicity No data available Perioductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available	Skin - reconstructed human epidermis (RhE)
The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available	Result: No skin irritation - 15 min (OECD Test Guideline 439)
Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Test Type: Arnes test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available	Remarks: (in analogy to similar products)
No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Test Type: Ames test Test system: Escherichia coll/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available	The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt
Respiratory or skin sensitization No data available Gern cell mutagenicity No data available Test rype: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Perofuctive toxicity No data available Paperductive toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available Gata available	Serious eye damage/eye irritation
No data available Germ cell mutagenicity No data available Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Reporticit to toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available	No data available
Gern cell mutagenicity No data available Test Type: Arnes test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Peroductive toxicity No data available Specific target organ toxicity - single exposure No data available Pacific target organ toxicity - repeated exposure No data available Actia available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available Pacific target organ toxicity - repeated exposure No data available Pacific target organ toxicity - repeated exposure No data available	Respiratory or skin sensitization
No data available Test Type: Ames test Test system: Escherichia coll/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Peroductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Ab data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available	No data available
 Fest Type: Ames test Test system: Escherichia coll/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt Carcinogenicity No data available Reproductive toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Agairation hazard 	Germ cell mutagenicity
 Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt 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
 471 Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt 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 	Test Type: Ames test
Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt 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 Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure No data available Description hazard	Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline
Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt 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 Appration hazard	471
The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt 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 Specific target organ toxicity - repeated exposure No data available Specific target organ toxicity - repeated exposure	Result: negative
CarcinogenicityNo data availableReproductive toxicityNo data availableSpecific target organ toxicity - single exposureNo data availableSpecific target organ toxicity - repeated exposureNo data availableSpecific target organ toxicity - repeated exposureNo data availableAspiration hazard	Remarks: (in analogy to similar products)
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	The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt
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	Carcinogenicity
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
Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard	Reproductive toxicity
No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard	No data available
Specific target organ toxicity - repeated exposure No data available Aspiration hazard	Specific target organ toxicity - single exposure
No data available Aspiration hazard	No data available
Aspiration hazard	Specific target organ toxicity - repeated exposure
	No data available
No data available	Aspiration hazard
	No data available

SECTION 12: Ecological information

Toxicity

No data available **Toxicity to daphnia and other aquatic invertebrates** semi-static test EC50 - Daphnia magna (Water flea) - > 43,8 mg/l - 48 h (OECD Test Guideline 202) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt

Toxicity to algae

static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 83 % - Readily biodegradable. (OECD Test Guideline 301F) Remarks: (in analogy to similar compounds) The value is given in analogy to the following substances: adenosine 5'-triphosphate disodium salt

aerobic - Exposure time 28 d

Result: 83 % - Readily biodegradable. (OECD Test Guideline 301F)

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods

Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

Regulations on the Safety Management of Hazardous Chemicals

China Catalog of Hazardous chemicals 2015:Not Listed. website: https://www.mem.gov.cn/

Measures for Environmental Management of New Chemical Substances

European Inventory of Existing Commercial Chemical Substances (EINECS):Not Listed. website: https://echa.europa.eu/

EC Inventory:Not Listed.

Korea Existing Chemicals List (KECL):Not Listed. website: http://ncis.nier.go.kr

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC):Not Listed. website: https://www.mee.gov.cn/

Philippines Inventory of Chemicals and Chemical Substances (PICCS):Not Listed. website: https://emb.gov.ph/

New Zealand Inventory of Chemicals (NZIoC):Not Listed. website: https://www.epa.govt.nz/

United States Toxic Substances Control Act (TSCA) Inventory:Not Listed. website: https://www.epa.gov/

Vietnam National Chemical Inventory:Listed. website: https://chemicaldata.gov.vn/

SECTION 16: Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulation concerning the International Carriage of Dangerous Goods by Rail IMDG: International Maritime Dangerous Goods IATA: International Air Transportation Association TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

References

[1] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

[2] ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

- [3] ECHA European Chemicals Agency, website: https://echa.europa.eu/
- [4] eChemPortal The Global Portal to Information on Chemical Substances by OECD, website:

http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

[5] ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

- [6] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- [7] HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- [8] IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- [9] IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- [10] Sigma-Aldrich, website: https://www.sigmaaldrich.com/

Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.