

Griess-Romijn nitrite reagent

Hayashi Pure Chemical Ind.,Ltd. Revision date: 5/29/2024

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SDS code: E6-02

Version: 08

Safety Data Sheet

1. Chemical product and company identification

Product name SDS code	:	Griess-Romijn nitrite reagent E6-02
Company/undertaking identification HAYASHI PURE CHEMICAL Address : 3-2-12 Uchihirano Telephone : 06-6910-7305 E-mail : shiyaku_kikaku@hp URL : https://www.hpc-j.co.jj	mao oc-j.o	shi, Chuo-ku, Osaka, Osaka, Japan
Emergency number	:	06-6910-7305
Recommended use	:	For research and experimental use only.
Restrictions on use	:	Do not use on a human body or for animal medicines, foods, household products, cosmetics, etc.

2. Hazards identification

GHS classification

Flar Aer	losives nmable gases osol dizing gases ses under pressure	No classification No classification No classification No classification
Aer	osol dizing gases ses under pressure	No classification
Oxi	ses under pressure	
	ses under pressure	
Gas		No classification
Flar	nmable liquids	No classification
Flar	nmable solids	classification not possible
	-reactive substances and tures	classification not possible
Pyre	ophoric liquids	No classification
Pyre	ophoric solids	No classification
	-heating substances and tures	classification not possible
	stances and mixtures which in tact with water emit flammable es	No classification
Oxi	dizing liquids	No classification
Oxi	dizing solids	classification not possible
Org	anic peroxides	No classification
Cor	rosive to metals	classification not possible
Des	ensitized explosives	classification not possible
Health hazards Acu	te toxicity (oral)	classification not possible
Acu	te toxicity (dermal)	classification not possible
Acu	te toxicity (inhalation:gas)	classification not possible
Acu	te toxicity (inhalation:vapors)	classification not possible
Acu	te toxicity (inhalation:dust/mist)	classification not possible
Skir	n corrosion/irritation	classification not possible
Ser	ious eye damage/eye irritation	Category 2
Res	piratory sensitization	classification not possible
Skir	n sensitization	Category 1
Ger	m cell mutagenicity	classification not possible
Car	cinogenicity	classification not possible
	productive toxicity	classification not possible
	cific target organ toxicity (single osure)	classification not possible

	Specific targe (repeated exp			classification not possible
	Aspiration haz	zard		classification not possible
Environmental hazards	Hazardous to environment,		aquatic rt-term (acute)	classification not possible
	Hazardous to environment,		aquatic g-term (chronic)	classification not possible
	Hazardous to	the	ozone layer	classification not possible
Hazard pictograms (GHS JP)	!>			
	GHS07			
Signal word (GHS JP)		•	Warning	
Hazard statements (G	iHS JP)	:		ergic skin reaction (H317) ye irritation (H319)
Precautionary stateme	ents (GHS JP)			
Prevention		:	Wash hands, fore Contaminated wo (P272)	ust/fume/gas/mist/vapors/spray. (P261) arms and face thoroughly after handling. (P264) rk clothing should not be allowed out of the workplace. loves/protective clothing/eye protection/face protection.
Response		:	IF IN EYES: Rins. contact lenses, if (P305+P351+P33 If skin irritation or If eye irritation per	h with plenty of water. (P302+P352) e cautiously with water for several minutes. Remove present and easy to do. Continue rinsing. 88) rash occurs: Get medical advice/attention. (P333+P313) rsists: Get medical advice/attention. (P337+P313) nated clothing and wash it before reuse. (P362+P364)
Disposal		:	Dispose of conter	nts/container to hazardous or special waste collection ice with local, regional, national and/or international

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or	Formula	Kanpo	CAS RN	
Name	Concentration range	Tornula	CSCL no	ISHL no	
α -Naphthylamine	About 1%	C10H9N	(4)-321	Existing Chemical Substance	134-32-7
Sulfanilic acid	About 10%	C6H7NO3S	(3)-1971	Existing Chemical Substance	121-57-3
L(+)-Tartaric acid	About 89%	C4H6O6	(2)-1456	Existing Chemical Substance	87-69-4

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing.
		Get immediate medical advice/attention.
First-aid measures after skin	:	Remove/Take off immediately all contaminated clothing.
contact		Gently wash with plenty of soap and water.
		Get immediate medical advice/attention.

First-aid measures after eye contact	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		Get immediate medical advice/attention.
First-aid measures after ingestion	:	Rinse mouth.
		Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media	:	Use proper extinguishing media depending on peripheral fire.
Unsuitable extinguishing media	:	Do not use a heavy water stream.
Hazardous decomposition products in case of fire	:	In case of fire, product may produce irritative or toxic fumes/gases.
Firefighting instructions	:	If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers.
		In the case of peripheral fire, quickly remove movable containers to safe places.
		If unable to be moved containers, sprinkle water to containers and surrounding equipment, etc. to cool.
Protection during firefighting	:	Wear appropriate fire-resistant clothing including self contained- compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions Protective Fr	uipment and Emergency Procedures
General measures	: Before entering, ventilate the area.
General measures	Do not let unauthorized persons come close to the area.
	Immediately place the leakage area in isolation, with taking proper distances for all directions.
	Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.
Environmental precautions	
Environmental precautions	: Avoid release to the environment.
	Prevent entry to sewers and public waters.
Methods and Equipment for Contair	ment and Cleaning up
Methods for cleaning up	Take care not to generate dust, sweep it up as much as possible, collect it in an empty container that can be sealed, and move it to a safe place.
	Wash out the spilled area with large amounts of water.
7. Handling and storage	
Technical measures	: Work with appropriate personal protective equipment to prevent inhalation or contact to eyes, skin, and clothing.
	Handle with care to prevent leakage, overflowing, or scattering, minimize generation of mist or vapor, and thoroughly ventilate.
Precautions for safe handling	Do not eat, drink or smoke when using this product.
	Thoroughly wash your hands and gargle after handling.
	Ensure good ventilation of the work station.
	Do not contact, breathe or swallow.
Prevents handling of incompatible substances or mixtures	: Avoid prolonged or repeated exposure.
Storage	
Storage conditions	: Store locked up.
	Store in a well-ventilated place, away from direct sunlight. Keep container
	tightly closed and keep away from fire and heat sources.
Material used in	: Light shielding airtight container.
packaging/containers	
Technical measures	: Comply with applicable regulations.
Storage temperature	: Cool and dark place

8. Exposure controls / Personal protection equipment

Appropriate engineering controls	: Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.
Protective equipment	
Respiratory protection	: Dustproof mask
Hand protection	: Impervious protective gloves
Eye protection	: Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection	: Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state	:	Solid
Appearance	:	Crystalline powder
Color	:	white
Odor	:	characteristic odor
рН	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	No data available
Relative gas density	:	No data available
Solubility	:	No data available
Partition coefficient n-	:	No data available
octanol/water (Log Pow)		
Explosive limits (vol %)	:	No data available
Viscosity, kinematic	:	No data available
Particle characteristics	:	No data available

10. Stability and reactivity

Reactivity	:	No data available
Chemical stability	:	Stable under normal handling conditions. Gradually colored by air, light and moisture.
Possibility of hazardous reactions	:	Reacts with oxidizing agents, reducing agents, acids and bases.
Conditions to avoid	:	Sunlight, moisture, heat. Contact with oxidizing agents, reducing agents, acids and bases.
Incompatible materials	:	Oxidizing agents, Reducing agents, Acids, Bases
Hazardous decomposition products	:	Nitrogen oxides, Sulfur oxides

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

As a product		
Acute toxicity (oral)	classification not possible	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (inhalation)	vapors:classification not possible Gases:classification not possible dust, mist:classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	Category 2	
Respiratory sensitization	classification not possible	
Skin sensitization	Category 1	

As a product	
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	classification not possible
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible
α-Naphthylamine	
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	Category 3
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	Category 2B
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	No classification
Carcinogenicity	No classification
Reproductive toxicity	classification not possible
STOT-single exposure	Category 2
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible
Sulfanilic acid	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	Category 2A
Respiratory sensitization	classification not possible
Skin sensitization	Category 1
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	classification not possible
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible
L(+)-Tartaric acid	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (gas)	No data available
Acute toxicity (gas)	No data available
Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist)	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
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12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

As a product	
Hazardous to the aquatic environment,	classification not possible
short-term (acute)	
Hazardous to the aquatic environment,	classification not possible
long-term (chronic)	
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
α-Naphthylamine	
Hazardous to Aquatic Environment - Acute Hazard	classification not possible
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Sulfanilic acid	
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment - Chronic Hazard	No classification
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible
L(+)-Tartaric acid	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available

13. Disposal considerations

Ecology - waste materials	:	With the detail information of the waste, subcontract its disposal to a waste disposer authorized by a Prefectural Governor.
Contaminated container and	:	Empty the packaging completely prior to disposal.
packaging		Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.
14. Transport information		
International Regulations		
Transport by sea(IMDG)		
UN-No. (IMDG)	:	Not applicable
Proper Shipping Name (IMDG)	:	Not applicable
Packing group (IMDG) Transport hazard class(es) (IMDG)	÷	Not applicable Not applicable
Air transport(IATA)	-	
UN-No. (IATA)	:	Not applicable
Proper Shipping Name (IATA)	:	Not applicable
Packing group (IATA) Transport hazard class(es) (IATA)	÷	Not applicable Not applicable
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Marine pollutant Regulations in Japan Regulatory information by sea Regulatory information by air Special transport precautions 15. Regulatory information	: : : (Not applicable Not applicable Not applicable When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.
National law		
Industrial Safety and Health Law	:	Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57-1, Art.56-1, Enforcement Order Art.17, Attached Table No.3 Item 1) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Law Art.57-2, Act 56 Para.1, Enforcement Order Art.18-2 Item 3, Art.17 Attached Table No.3 Item 1) α -Naphthylamine and its salts Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 4 based on July 4, 2023) [Date of enforcement: April 1, 2025] Dangerous or Harmful Substances for Labeling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18) Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2) p-Aminobenzenesulfonic acid
Japanese Poisonous and Deleterious Substances Control Law	:	Not applicable
Fire Service Law	:	Not applicable
Foreign Exchange and Foreign Trade Control Act	:	Export Trade Control Ordinance appendix 1-16
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	:	Not applicable

16. Other information

Data sources

Other information

- Handbook of 17524 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards.
 National Institute of Technology and Evaluation (NITE).
 2020 Emergency Response Guidebook (ERG 2020).
- The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. : This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.