



## Material Safety Data Sheet

# 4-Aminobutyric acid

Approved By IATA Regulation

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name 4-Aminobutyric acid

Company information manufacturer  
Kaiyuan Hengtai Fine Chemicals Factory  
No.18,YiheRoad,Kaiyuan City, Liaoning Province, China 112300

Tel:+86-410-3711928  
Fax:+86-410-3710986

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Chemical name 4-Aminobutyric acid

Synonyms: 4-Aminobutanoic acid; Piperidinic acid; GABA; Gamarex; Gammalon

CAS No. 56-12-2

EINECS No. 200 258 6

Molecular formula  $C_4H_9NO_2$

Molecular mass 103.1201g/mol

Structure  
 $NH_2CH_2CH_2CH_2COOH$

### SECTION 3 - HAZARDS IDENTIFICATION

Most important hazards May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target organs: None.

### SECTION 4 - FIRST AID MEASURES

Eyes Rinse immediately with tap water for at least 15 minutes, open eyelids forcibly. Get medical aid immediately.

Skin Remove immediately contaminated clothes, wash affected skin with

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Inhalation	water and soap,do not use any solvents Remove he casualty to fresh air and keep him/her calm. Consult physician.
Notes to physician	Treat symptomatically

#### SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media	Water spray jet, dry powder, form, carbon dioxide
Specific hazards	Consider dust explosion hazard.
Protection of fire-fighters	Precipitate gases/vapors/mists with water spray

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Environmental protection	Do not allow to enter drains or waterways.
Methods for cleaning up	Collect solids(avoid dust formation) and hand over to waste removal Clean contaminated areas with little ethanol

#### SECTION 7 - HANDLING and STORAGE

Handling	
Technical measures	processing in closed systems, if possible superposed by inert gas(e.g. nitrogen) Local exhaust ventilation necessary Take precautionary measures against electrostatic charging Avoid dust formation; very high dust explosion hazard
Suitable materials	Stainless steel, aluminium, enamel, glass, polyethylene When plastics are used, possible electrostatic charges must be Considered.
Storage	
Storage conditions	Store in a dry place, room temperature
Validity	30 months,20 to 25°C,in the unopened original container,see "best use before" date stated on the label.
Packaging materials	Tightly closing; aerial: stainless steel, glass, aluminium, enamel, polyethylene, plywood (lined with polyethylene bag), cardboard (lined with polyethylene bag)

#### SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

~~Engineering measures — Use adequate general or local exhaust ventilation to keep airborne~~

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concentrations below the permissible exposure limits.

Chemicals name	ACGIH	NIOSH	OSHA-Final PELs
4-Aminobutyric acid	none listed	none listed	none listed

OSHA Vacated PELs:

4-Aminobutyric acid: No OSHA Vacated PELs are listed for this chemicals.

Personal protective equipment

Respiratory protection In case of open handling or accidental release: particle mask or respirator with independent air supply

Hand protection Protective gloves

Eye protection Safety glasses

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Colour	White to off-white
Form	solid
Odour	None reported
Solubility	soluble in water and soluble slightly in thermal alcohol, insoluble in cool alcohol, ether or benzene. It is ending to prism in alcohol.
Melting point	197~204°C

#### SECTION 10 - STABILITY AND REACTIVITY

Conditions to avoid	Incompatible materials
Materials to avoid	strong oxidizing agents

#### SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 56-12-2: ES6300000

LD<sub>50</sub>/LC<sub>50</sub>:

CAS# 56-12-2: Oral, mouse: LD50=12680mg/kg

Carcinogenicity:

4-Aminobutyric acid-

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

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## SECTION 12 - ECOLOGICAL INFORMATION

Inherent biodegradability	None listed
Ecotoxicity	None listed
Air pollution	Observe local/national regulations

## SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR parts 261.3. additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

## SECTION 14 - TRANSPORT INFORMATION

Note Not classified by transport regulations

## SECTION 15 - REGULATORY INFORMATION

US FEDEFAL

TSCA

CAS#56-12-2 is listed on the TSCA inventory.

Health & safety reporting list

None of the chemicals are on the health & safety reporting list.

Chemicals test rules

None of the chemicals in this product are under a chemical test rule.

Section 12b

None of the chemicals are listed under TSCA section 12b.

TSCA significant new use rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302(RQ)

None of the chemicals in this material have an RQ.

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Section 302(TPQ)

None or the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under section313.

Clean air act:

This material does not contain any hazardous air pollutants.

This material does not contain any class 10 zone depletors.

This material does not contain any class 20 zone depletors.

Clean water act :

None of the chemicals in this product are listed as hazardous substances under the CWA.

None of the chemicals in this product are listed as priority pollutants under the CWA.

None of the chemicals in this product are listed as toxic pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

4-Aminobutyric acid is not present on state lists from CA,PA,MN,MA,FL,or NJ.

California No significant risk level:

None of the chemicals in this product are listed.

European/international regulations

European labeling in accordance with EC directives.

Risk phrases:

Safety phrases:

S 24/25 Avoid contact with skin and eyes.

WGK(Water danger/protection)

CAS#56-12-2:No information available.

United kingdom occupational exposure limits

Canada

CAS#56-12-2 is listed on Canada's DSL list.

WHMIS: Not available

CAS#56-12-2 is not listed on Canada's ingredient disclosure list.

Exposure limits

SECTION 16 - ADDITIONAL INFORMATION

Use As an additional of food  
MSDS creating date: 10/12/2004

