Musaibo Kun

SAFETY DATA SHEET

1. Product and Company Information

Product Name : Musaibo Kun N 100

Company : Taiyo Nippon Sanso Corporation Street Address : 1-3-26 Koyama Shinagawa-ku City, State, Zip, : Tokyo, 142-8558, JAPAN

Country

Technical Phone : +81(3)5439-5898 FAX : +81(3)5439-5883

2. Hazards Identification

Classification of the substance : Not a hazardous substance or mixture according to Regulation (EC) No

or mixture 1272/2008.

Label elements Not a hazardous substance or mixture according to Regulation (EC) No

Pictogram No data available Signal word : No data available : No data available **Hazard statement(s)** Precautionary : No data available

statement(s)

Other hazards : None.

3. Substances

Chemical Name	:	L-Glutamic Acid Potassium	Creatine Phosphate Disodium	HEPES	Sodium Azide
Content (%)	:	3.7	2. 1	1.4	0.05
Chemical Formula		C5H8KNO4	C4H8N3Na205P	C8H18N2O4S	NaN3
Molecular Weight		185.22	255. 08	238. 30	65. 01
Official Gazette Number		-	-	-	1-482
Poisonous and Deleterious Substances Control Law		Not applicable	Not applicable	Not applicable	Not applicable %1
PRTR Law		Not applicable	Not applicable	Not applicable	Not applicable
CAS No.		540778-10-7	19333-65-4	7365-45-9	26628-22-8

¹ Classified as a toxic designated substance under the Poisonous and Deleterious Substances Control Law, but exempted as the content is less than 0.1%.

4. First Aid Measures

General advice Show this material safety data sheet to the doctor in attendance.

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 eve 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 : The most important known symptoms and effects are described in the

and effects, both acute and labelling (see section 2.2) and/or in section 11



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delayed

Indication of any immediate : No data available

treatment needed

5. Fire Fighting Measures

Extinguishing media Water, carbon dioxide, powder fire extinguishing agent, etc.

Suitable extinguishing media

medical attention and special

Use extinguishing measures that are appropriate to local circumstances and

the surrounding environment.

Unsuitable extinguishing

media

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

Special hazards arising from:

the substance or mixture

Not combustible.

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

Prevent fire extinguishing water from contaminating surface water or the Further information

ground water system.

6. Accidental Release Measures

Personal precautions, protective equipment and Advice for non-emergency personnel: Do not breathe gas. Avoid substance

contact.

emergency procedures Ensure adequate ventilation. Evacuate the danger area, observe emergency

procedures, consult an expert.

For personal protection see section 8. Do not let product enter drains.

Environmental precautions

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.

For disposal see section 13. Reference to other sections

7. Handling and Storage

Precautions for safe : To avoid contact with eyes and skin.

handling

Storage conditions Store at $-80\pm2^{\circ}$ C.

Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure Controls/Personal Protection

Control Ingredients with workplace control parameters

parameters

Exposure controls

Use equipment for eye protection tested and approved under Personal **Eye/face protection**

protective appropriate

equipment government standards such as NIOSH (US) or EN 166(EU).

Safety glasses

Skin protection Chemical-resistant gloves

Body Protection Rubber or impervious shoes, rubber or impervious protective

clothing



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Respiratory protection: Required when vapours/mists 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 ABEK

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 : Do not let product enter drains.

environmental exposure

9. Information on Basic Physical and Chemical Properties

Appearance : liquid

Odor : Pale yellow

Odor Threshold : No data available pH : No data available Melting point : No data available

/freezing point

Initial boiling point and : No data available

boiling range

Flash point : No data available
Evaporation rate : No data available
Flammability : No data available

(solid, gas)

Upper/lower : No data available

flammability or explosive limits

Vapor pressure: No data availableVapor density: No data availableRelative density: No data availableWater solubility: No data availablePartition coefficient:: No data available

n-octanol/water

Autoignition : No data available

temperature

Decomposition : No data available

temperature

Viscosity : Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: No data availableOxidizing properties: No data availableOther: No data available

safety information

10. Stability and Reactivity

Reactivity : No data available

Chemical stability: The product is chemically stable under standard ambient conditions.

Possibility : No data available

of hazardous reactions

Conditions to avoid : no information available

Incompatible materials : No data available

Hazardous decomposition: Carbon dioxide, carbon monoxide, nitrogen oxides, phosphoric acid

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11. Toxicological Information

Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or 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

Environmental Haz Acute Aquatic Toxicity

No data available

Environmental Haz Chronic Aquatic Toxicity

No data available

Additional Information

Not available

12. Ecological Information

Toxicity : No data available
Persistence : No data available

and degradability

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 : No data available

13. Waste Treatment Methods

Residual Waste:

Dispose of after inactivation treatment, such as autoclaving.

Contaminated Containers and Packaging:

When discarding empty containers, dispose of after inactivation treatment, such as autoclaving

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: -



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: ADR/RID: no IMDG Marine pollutant: no IATA: no **Environmental hazards**

Special precautions for user : No data available

15. Regulatory Information

Safety, health and Environmental: regulations/legislation specific for

the substance or mixture

This material safety data sheet complies with the requirements of

Regulation (EC) No. 1907/2006.

Take note of Dir 94/33/EC on the protection of young people at Other regulations

work.

Chemical Safety Assessment : For this product a chemical safety assessment was not carried out

16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Taiyo Nippon Sanso Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.