

Date Updated:2026-04-01

TNI01716E-1 Membrane protein expression additive SetA
(Additive M1, Additive M2)

SAFETY DATA SHEET

1. Product and Company Information

Product Name : Membrane protein expression additive SetA (Additive M1, Additive M2)
Company : Nippon Sanso Corporation
Street Address : Toyo Bldg. 1-3-26 Koyama Shinagawa-ku
City, State, Zip, : Tokyo, 142-8558, JAPAN
Country
Technical Phone : +81(45)872-1824
FAX : +81(45)872-1825
Identified Uses For research use only

2. Hazards Identification

Additive M1

Classification of the substance or mixture : Acute toxicity - Oral Category 3
Acute toxicity - Dermal Category 3
Acute toxicity - Inhalation (Dusts/Mists) Category

Label elements

Pictogram



Signal word : Danger
Hazard statement(s) : H301 Toxic if swallowed
H311 Toxic in contact with skin
H331 Toxic if inhaled

Date Updated:2026-04-01

TNI01716E-1 Membrane protein expression additive SetA
(Additive M1, Additive M2)

**Precautionary
statement(s)**

: Prevention

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area.

Response

- IF ON SKIN: Wash with plenty of soap and water
- Call a POISON CENTER or doctor/physician if you feel unwell
- Remove/Take off immediately all contaminated clothing
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth

Storage

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

Disposal

- Dispose of contents/container to an approved waste disposal

Other hazards

Please comply with the relevant laws and regulations of the country.

Additive M2

Classification of the substance or mixture : Acute toxicity - Category 4

Label elements

Pictogram



Signal word

: Warning

Hazard statement(s)

: H302: Harmful if swallowed.

**Precautionary
statement(s)**

: Prevention

- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements

none

Other hazards

Please comply with the relevant laws and regulations of the country.

Date Updated:2026-04-01

TNI01716E-1 Membrane protein expression additive SetA
(Additive M1, Additive M2)

3. Substances

Component	Additive M1		Additive M2	
Chemical name	L- α -phosphatidyl choline	Digitonin	L- α -phosphatidyl choline	α -Octadecyl- ω -hydroxy-poly(oxy-1,2-ethanediyl)
Content	6.7%	10%	6.7%	10%
Formula	: $C_{43}H_{83}NO_8P$	$C_{56}H_{92}O_{29}$	$C_{43}H_{83}NO_8P$	$(C_2H_4O)_n C_{18}H_{38}O$
MW	773	1229.33	773	-
CAS No.	: 97281-44-2	11024-24-1	97281-44-2	9005-00-9
EC No.	:			500-017-8

4. First Aid Measures

Description of First Aid Measures

General advice	:	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	:	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	:	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of First-aiders	:	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.
Most Important Symptoms and Effects, both Acute and Delayed	:	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
Indication of Any Immediate Medical Attention and Special Treatment Needed	:	Treat symptomatically. Symptoms may be delayed.

5. Fire Fighting Measures

Extinguishing Media

Suitable Extinguishing Media	:	Water, Carbon dioxide (CO ₂), Foam, Extinguishing powder
Unsuitable Extinguishing Media	:	No information available
Special Hazards Arising from the Substance or Mixture	:	Thermal decomposition can lead to release of irritating and toxic gases
Advice for Firefighters	:	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fire from a safe distance, with adequate cover. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Date Updated:2026-04-01

TNI01716E-1 Membrane protein expression additive SetA
(Additive M1, Additive M2)

6. Accidental Release Measures

- Personal Precautions, Protective Equipment and Emergency Procedures** : Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.
- Environmental Precautions** : Prevent further leakage of spillage if safe to do so. Discharge into the environment must be avoided.
- Methods and Materials for Containment and Cleaning up** : Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and Storage

- Precautions for Handling** : Additive M1:
Avoid contact with strong oxidizing agents. Use with local exhaust ventil.
- Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area.
- Precautions for Storage** : Store below -20 degrees C

8. Exposure Controls/Personal Protection

Control Parameters

- Occupational Exposure Limit Values** : No information available
- Biological Limit Values** : No information available
- Monitoring Methods** : EN 14042 workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series Standard).
- Engineering Controls** : Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Set up emergency exit and necessary risk-elimination area.
- Personal protective Equipment**
- Eye Protection** : Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH(US).
- Hand Protection** : Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161. 1 standard.
- Skin and Body Protection** : Wear fire/flame resistant/retardant clothing and antistatic boots.
- Respiratory protection** : If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Date Updated:2026-04-01

TNI01716E-1 Membrane protein expression additive SetA
(Additive M1, Additive M2)

9. Information on Basic Physical and Chemical Properties

Chemical name	: Additive M1	Additive M2
Appearance	: Liquid	Liquid
Color	: White	White
pH	: no data available	no data available
Melting Point	: no data available	no data available
/Freezing Point		
Initial Boiling Point and Boiling Range	: no data available	no data available
Flash Point	: no data available	no data available
Evaporation Rate	: no data available	no data available
Flammability	: no data available	no data available
Upper/Lower Explosive Limits[% (v/v)]	: no data available	no data available
Vapor Pressure (MPa)	: no data available	no data available
Relative Vapour Density (Air=1)	: no data available	no data available
Relative Density (water=1)	: no data available	no data available
Solubility	: no data available	no data available
n-Octanol/Water Partition Coefficient	: no data available	no data available
Auto-Ignition Temperature (°C)	: no data available	no data available
Decomposition Temperature (°C)	: no data available	no data available
Kinematic Viscosity (mm²/s)	: no data available	no data available
Particle Characteristics	: no data available	no data available

10. Stability and Reactivity

Chemical name	: Additive M1	Additive M2
Reactivity	: no data available	no data available
Chemical Stability	: table under proper operation and storage conditions.	table under proper operation and storage conditions.
Possibility of Hazardous Reactions	: no data available	no data available
Conditions to Avoid	: no data available	no data available
Incompatible Materials	: no data available	no data available
Hazardous Decomposition Products	: no data available	no data available

11. Toxicological Information

Chemical name	: Additive M1	Additive M2
Acute toxicity	: no data available	no data available
Skin corrosion/irritation	: no data available	no data available
Serious eye damage/eye irritation	: no data available	no data available
Respiratory or skin sensitization	: no data available	no data available

Date Updated:2026-04-01

TNI01716E-1 Membrane protein expression additive SetA
(Additive M1, Additive M2)

Germ cell mutagenicity	no data available	no data available
Carcinogenicity	no data available	no data available
Reproductive toxicity	no data available	no data available
Specific target organ toxicity - single exposure	no data available	no data available
Specific target organ toxicity - repeated exposure	no data available	no data available
Aspiration hazard	no data available	no data available

12. Ecological Information

Chemical name	: Additive M1	Additive M2
Acute Aquatic Toxicity	: no data available	no data available
Chronic Aquatic Toxicity	: no data available	no data available
Persistence and Degradability	: no data available	no data available
Bioaccumulative potential	: no data available	no data available
Mobility in soil	: no data available	no data available
Results of PBT and vPvB assessment	: no data available	no data available

13. Waste Treatment Methods

Waste Chemicals	: Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated Packaging	: Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Disposal Recommendations	: Refer to section 13.

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	: 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.
Other regulations	: Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	: For this product a chemical safety assessment was not carried out

Date Updated:2026-04-01

TNI01716E-1 Membrane protein expression additive SetA
(Additive M1, Additive M2)

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.