

# Nonylphenol ethoxylate (EO=1-15) mix solution, NPE MIX-XV

### Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 9/16/2021 Revision date: 2/1/2023 SDS code: D4-05 Version: 02

# Safety Data Sheet

# 1. Chemical product and company identification

**Product name** Nonylphenol ethoxylate (EO=1-15) mix solution, NPE MIX-XV

SDS code D4-05

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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**Emergency number** 06-6910-7305

Recommended use For research and experimental use only.

Restrictions on use Do not use for any purpose other than research and experiment. Do not use on a

human body or for animal medicines, foods, household products, cosmetics, etc.

Do not use in the environment.

### 2. Hazards identification

#### **GHS** classification

Physical hazards **Explosives** No classification

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids Category 2 Flammable solids No classification Self-reactive substances and No classification

mixtures

No classification Pyrophoric liquids Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

No classification

No classification Oxidizing liquids No classification Oxidizing solids No classification Organic peroxides

Corrosive to metals classification not possible Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) Category 4

> Acute toxicity (dermal) No classification Acute toxicity (inhalation:gas) No classification Acute toxicity (inhalation:vapors) No classification

Acute toxicity (inhalation:dust/mist) classification not possible Skin corrosion/irritation classification not possible

Serious eye damage/eye irritation Category 2

Respiratory sensitization classification not possible

Skin sensitization No classification Germ cell mutagenicity No classification

Carcinogenicity classification not possible

Reproductive toxicity Category 1B

Specific target organ toxicity (single Category 1 (central nervous system, visual organ,

exposure) systemic toxicity)

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Specific target organ toxicity (single

exposure)

Category 3 (Narcosis)

exposure)

Specific target organ toxicity

(repeated exposure)

Category 1 (central nervous system, visual organ)

Aspiration hazard

Hazardous to the aquatic

classification not possible classification not possible

Environmental hazards

environment, short-term (acute) Hazardous to the aquatic

classification not possible

environment, long-term (chronic)

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Hazardous to the ozone layer

classification not possible

Hazard pictograms (GHS JP)







GHS08

GHS02

GHS07

Signal word (GHS JP)

: Danger

Hazard statements (GHS JP) : Highly flammable liquid and vapor (H225)

Harmful if swallowed (H302) Causes serious eye irritation (H319) May cause drowsiness or dizziness (H336) May damage fertility or the unborn child (H360)

Causes damage to organs (central nervous system, visual organ, systemic

toxicity) (H370)

Causes damage to organs (central nervous system, visual organ) through

prolonged or repeated exposure (H372)

Precautionary statements (GHS JP)

Prevention

Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. (P210)

Ground and bond container and receiving equipment. (P240)
Use explosion-proof electrical/ventilating/lighting equipment. (P241)

Use only non-sparking tools. (P242)

Take action to prevent static discharges. (P243) Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

Response

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

(P301+P312)

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Get medical advice/attention if you feel unwell. (P314)

Rinse mouth. (P330)

If eye irritation persists: Get medical advice/attention. (P337+P313) In case of fire: Use specify appropriate media to extinguish. (P370+P378)

Storage : Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

Store in a well-ventilated place. Keep cool. (P403+P235)

Store locked up. (P405)

Disposal : Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

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# 3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	CAS KIN
Methanol	≧98%	СНЗОН	(2)-201	Existing Chemical Substance	67-56-1
Nonylphenol ethoxylate (EO=1-15)	0.013% each	C9H19-C6H4-O- (CH2CH2O)n-OH (n=1-15)	-	-	-

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

contact

Remove/Take off immediately all contaminated clothing.

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

Do NOT induce vomiting.

Rinse mouth.

Get immediate medical advice/attention.

# 5. Fire fighting measures

Suitable extinguishing media

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.Extremely flammable liquid and vapor.

Fire hazard Explosion hazard

Danger of the steam explosion in indoor, outdoor, sewer.

May induce explosion of containers by heating.

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.

Even after extinguishing fire, thoroughly cool containers by using plenty of

water.

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

### 6. Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Before entering, ventilate the area.

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.

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#### Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to

collect it.

Collect leaking and spilled liquid in sealable containers as far as possible.

Wash out the spilled area with large amounts of water.

# 7. Handling and storage

Handling

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.

Take precautionary measures against static discharge.

Use explosion-proof equipment.

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

packaging/containers

Light shielding airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Refrigerate: 2-10°C

# 8. Exposure controls / Personal protection equipment

Exposure limit values				
Methanol				
Japan administration level	200ppm			
Exposure limits (JSOH)	200ppm(260mg/m3)(skin)			
Exposure limits (ACGIH)	TWA 200 ppm.STEL 250 ppm (Skin)			

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 : Gas mask for organic gases
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 : Liquid
Appearance : Liquid

Color : No data available
Odor : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : 64.7 °C (as methanol)

Flash point : 12 °C (as methanol, tag closed cup)

Auto-ignition temperature : No data available

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Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Relative density : No data available

Density : 0.79 g/cm³ (as methanol)

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.

Possibility of hazardous reactions : Heating decomposes and generates formaldehyde. Reacts violently with

oxidizing agents, and pose a risk of fire and explosion. Mixing with hydrogen peroxide causes explosion by impact. Aluminum and lead may be eroded.

Conditions to avoid : Sunlight, heat. Ignition sources such as flame, spark, and static electricity.

Contact with oxidizing agents, acids, reducing agents, metals.

Incompatible materials : Oxidizing agents, Acids, Reducing agents, Metals

Hazardous decomposition : Formaldehyde

products

As a product

STOT-single exposure

STOT-repeated exposure

# 11. Toxicological information

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

Acute toxicity (oral)	Category 4	
Acute toxicity (dermal)	No classification	
Acute toxicity (inhalation)	vapors:No classification	
	Gases:No classification	
	dust, mist:classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	Category 2	
Respiratory sensitization	classification not possible	
Skin sensitization	No classification	
Germ cell mutagenicity	No classification	
Carcinogenicity	classification not possible	
Reproductive toxicity	Category 1B	
STOT-single exposure	Category 1 Category 3 (Narcosis)	
STOT-repeated exposure	Category 1	
Aspiration hazard	classification not possible	
Methanol		
Methanoi		
Acute toxicity (oral)	Category 4	
	Category 4 No classification	
Acute toxicity (oral)		
Acute toxicity (oral) Acute toxicity (dermal)	No classification	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas)	No classification No classification	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas) Acute toxicity (vapour)	No classification No classification No classification	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas) Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist)	No classification No classification No classification classification not possible	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas) Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation	No classification No classification No classification classification not possible classification not possible	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas) Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation	No classification No classification No classification classification not possible classification not possible Category 2	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas) Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitization	No classification No classification No classification classification not possible classification not possible Category 2 classification not possible	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (gas) Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitization Skin sensitization	No classification No classification No classification classification not possible classification not possible Category 2 classification not possible No classification	

Category 1 Category 3 (Narcosis)

Category 1

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Methanol		
Aspiration hazard	classification not possible	
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Acute toxicity (oral)	No data available	
Acute toxicity (dermal)	No data available	
Acute toxicity (gas)	No data available	
Acute toxicity (vapour)	No data available	
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	

# 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, short-term (acute)	classification not possible			
Hazardous to the aquatic environment, long-term (chronic)	classification not possible			
Persistence and degradability	No data available			
Bioaccumulative potential	No data available			
Mobility in soil	No data available			
Ozone	classification not possible			
Methanol				
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			
Nonylphenol ethoxylate (EO=1-15)				
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.

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# 14. Transport information

### International Regulations

#### Transport by sea(IMDG)

UN-No. (IMDG) 1993

Proper Shipping Name (IMDG) FLAMMABLE LIQUID, N.O.S.

IBC02

T7

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 3 Hazard labels (IMDG) 3 Class (IMDG) 3 Special provision (IMDG) 274 Limited quantities (IMDG) 1 L Excepted quantities (IMDG) E2 Packing instructions (IMDG) P001

Tank special provisions (IMDG) TP1, TP28, TP8

Stowage category (IMDG) В MFAG-No 127

Air transport(IATA)

IBC packing instructions (IMDG)

Tank instructions (IMDG)

UN-No. (IATA)

Proper Shipping Name (IATA) Flammable liquid, n.o.s.

Packing group (IATA) Ш Transport hazard class(es) (IATA) 3 Hazard labels (IATA) 3 Class (IATA) 3 PCA Excepted quantities (IATA) E2 PCA Limited quantities (IATA) Y341 PCA limited quantity max net 1L

quantity (IATA)

PCA packing instructions (IATA) 353 PCA max net quantity (IATA) 5L CAO packing instructions (IATA) 364 CAO max net quantity (IATA) 60L Special provision (IATA) А3 ERG code (IATA) 3H

Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Regulatory information by air Conform to the provisions of the Civil Aeronautics Law.

MFAG-No 127

Special transport precautions When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

## 15. Regulatory information

#### **National law**

Industrial Safety and Health Law Class 2 Organic Solvents etc. (Enforcement Order, Art., Appended

Table 6-2, Ordinance on Prevention of Organic Solvent Poisoning,

Art.1, Para.1, Item 4)

Working Environment Evaluation Standards, Administrative Control

Levels (Law Art.65-2, Para.1)

Harmful Substances Whose Names Are to be Indicated on the Label

(Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,

Attached Table No.9)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9) Methanol (Ordinance number: 560)

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1)

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Fire Service Law Group 4 - Flammable liquids - Alcohols (Law Art.2 Para.7, Attached

Table 1, Group 4)

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Air Pollution Control Law

: Specified substances (Article 17, Paragraph 1 of the Law, Article 10

of the Enforcement Ordinance)

Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Foreign Exchange and Foreign

Trade Control Act

: Export Trade Control Ordinance appendix 1-16

Ship Safety Act : Flammable liquids (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Civil Aeronautics Law : Flammable liquids (Hazardous materials notice Appended Table 1

Article 194 of the Enforcement Regulations)

Port Regulation Law : Flammable liquids (Article 21, Paragraph 2 of Law, Article 12 rule,

notice attached table that defines the type of dangerous goods)

Road Act : Restriction for Vehicle Traffic (Enforcement Order Art.19-13,

Publication of Japan Highway Pablic Corp.)

Waste Management on Public

Cleansing Law

: Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Order Art.2-4)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Labor Standards Act

: Not applicable

: Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification

No.36 of 1978)

### 16. Other information

Data sources

: Handbook of 17322 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

Other information

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.