

# OFF-FLAVOR KIT II (1-Octen-3-one)

## Hayashi Pure Chemical Ind.,Ltd.

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# Safety Data Sheet

## 1. Chemical product and company identification

**Product name** OFF-FLAVOR KIT II (1-Octen-3-one)

SDS code T6-11

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Telephone: 06-6910-7305

E-mail: shiyaku\_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

06-6910-7305 **Emergency number** 

Recommended use For research and experimental use only.

Restrictions on use Do not use for purposes other than odor confirmation test.

## 2. Hazards identification

#### **GHS** classification

Physical hazards No classification **Explosives** 

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

mixtures

Pyrophoric liquids No classification

No classification Pyrophoric solids

classification not possible

Self-heating substances and

mixtures

Substances and mixtures which in

gases

No classification contact with water emit flammable

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

Corrosive to metals classification not possible Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) No classification

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

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

Serious eye damage/eye irritation No classification

Respiratory sensitization classification not possible

Skin sensitization No classification

Germ cell mutagenicity classification not possible Carcinogenicity classification not possible

Reproductive toxicity Category 1B

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

exposure)

Specific target organ toxicity (single Category 2 (visual organ, systemic toxicity)

exposure)

Specific target organ toxicity (single Category 3 (Narcosis)

exposure)

Specific target organ toxicity Category 1 (respiratory system, central nervous

(repeated exposure) system)

Specific target organ toxicity

(repeated exposure)

Category 2 (visual organ)

Aspiration hazard classification not possible

Hazardous to the aquatic classification not possible environment, short-term (acute)

Hazardous to the aquatic

environment, long-term (chronic)

classification not possible

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)

Environmental

hazards





GHS07

7 GHS08

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : May cause drowsiness or dizziness (H336)

May damage fertility or the unborn child (H360)

Causes damage to organs (blood system, central nervous system) (H370) May cause damage to organs (visual organ, systemic toxicity) (H371) Causes damage to organs (respiratory system, central nervous system)

through prolonged or repeated exposure (H372)

May cause damage to organs (visual organ) through prolonged or

repeated exposure (H373)

Precautionary statements (GHS JP)

Prevention : Obtain special instructions before use. (P201)

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

(P202)

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 INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

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

(P308+P311)

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

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

(P403+P233)

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)

## 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
Propylene glycol	≧95%	C3H8O2	(2)-234	2-(8)-321,2- (8)-323	57-55-6
Methanol	About 1%	СНЗОН	(2)-201	Existing Chemical Substance	67-56-1
1-Octen-3-one	≦3%	C8H14O	-	-	4312-99-6

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.

First-aid measures after ingestion : Do NOT induce vomiting.

Rinse mouth.

Get immediate medical advice/attention.

Get immediate medical advice/attention.

# 5. Fire fighting measures

Suitable extinguishing media : Use proper extinguishing media depending on peripheral fire, Water

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

Unsuitable extinguishing media

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

Do not use a heavy water stream.

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 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.

#### 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.

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 : 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 : characteristic odor
pH : No data available
Melting point : No data available
Freezing point : No data available

Boiling point : 188.2 °C (as Propylene glycol)

Flash point : 107 °C (as Propylene glycol, Cleveland open cup)

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

Density : 1.04 g/cm³ (as Propylene glycol)

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. Hygroscopicity.

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

oxidizing agents and poses a risk of fire and explosion. Mixing with hydrogen peroxide may cause explosion by impact. Aluminium and lead

may be eroded.

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

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

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

Hazardous decomposition : Formaldehyde

products

# 11. Toxicological information

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

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

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Methanol	
Aspiration hazard	classification not possible
1-Octen-3-one	
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 IIIIOITIALIOIT III LIIIS SECLIOIT IS DASEU O	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
Propylene glycol	
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
Methanol	
Hazardous to Aquatic Environment - Acute Hazard	No classification
Hazardous to Aquatic Environment -	No classification  No classification
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment -	
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard	No classification
Hazardous to Aquatic Environment - Acute Hazard  Hazardous to Aquatic Environment - Chronic Hazard  Persistence and degradability	No classification  No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential	No classification  No data available  No data available
Hazardous to Aquatic Environment - Acute Hazard  Hazardous to Aquatic Environment - Chronic Hazard  Persistence and degradability  Bioaccumulative potential  Mobility in soil	No classification  No data available  No data available  No data available
Hazardous to Aquatic Environment - Acute Hazard  Hazardous to Aquatic Environment - Chronic Hazard  Persistence and degradability  Bioaccumulative potential  Mobility in soil  Hazardous to the ozone layer	No classification  No data available  No data available  No data available
Hazardous to Aquatic Environment - Acute Hazard  Hazardous to Aquatic Environment - Chronic Hazard  Persistence and degradability  Bioaccumulative potential  Mobility in soil  Hazardous to the ozone layer  1-Octen-3-one  Hazardous to Aquatic Environment -	No classification  No data available  No data available  No data available  classification not possible
Hazardous to Aquatic Environment - Acute Hazard  Hazardous to Aquatic Environment - Chronic Hazard  Persistence and degradability  Bioaccumulative potential  Mobility in soil  Hazardous to the ozone layer  1-Octen-3-one  Hazardous to Aquatic Environment - Acute Hazard  Hazardous to Aquatic Environment -	No classification  No data available  No data available  No data available  classification not possible  No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer  1-Octen-3-one Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard	No classification  No data available  No data available  No data available  classification not possible  No data available  No data available  No data available
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability Bioaccumulative potential Mobility in soil Hazardous to the ozone layer  1-Octen-3-one Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability	No classification  No data available No data available No data available classification not possible  No data available No data available No data available 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

packaging

Empty the packaging completely prior to disposal.

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) Not applicable Not applicable Transport hazard class(es) (IMDG)

Air transport(IATA)

UN-No. (IATA) Not applicable Not applicable Proper Shipping Name (IATA) Packing group (IATA) Not applicable Transport hazard class(es) (IATA) Not applicable Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Not applicable Regulatory information by air Not applicable

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**

Chemical Substances Control Law

Industrial Safety and Health Law

Priority Assessment Chemical Substances (Law Article 2, Para.5)

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)

Japanese Poisonous and

**Deleterious Substances Control Law** 

Not applicable

Fire Service Law

Group 4 - Flammable liquids - 3rd Class petroleums - soluble (Law

Art.2 Para.7, Attached Table 1, Group 4)

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

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 17423 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

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

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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.