

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	(4R)-4,8-dimethyldecanal
PRODUCT CODE	5083EN-1
COMPANY NAME	FUJI FLAVOR CO., LTD.
ADDRESS	3-5-8 Midorigaoka, Hamura-Shi, Tokyo 205-8503, Japan
DEPARTMENT	Ecomone Headquarters
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EMERGENCY TELEPHONE NO.	+81 42-554-1208
GENERAL USE	Aggregation pheromone of Monitoring device for TORIOS®(Red flour beetle)

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS	Explosives	Not applicable
	Flammable gases	Not applicable
	Aerosols	Not applicable
	Oxidizing gases	Not applicable
	Gases under pressure	Not applicable
	Flammable liquids	Not classified
	Flammable solids	Not applicable
	Self-reactive substances and mixtures	Not applicable
	Pyrophoric liquids	Not applicable
	Pyrophoric solids	Not applicable
	Self-heating substances and mixtures	Classification not possible
	Substances and mixtures which, in contact with water, emit flammable gases	Not applicable
	Oxidizing liquids	Not applicable
	Oxidizing solids	Not applicable
	Organic peroxides	Not applicable
	Corrosive to metals	Classification not possible
	HEALTH HAZARDS	Acute toxicity – Oral
Acute toxicity – Dermal		Classification not possible
Acute toxicity – Inhalation		Classification not possible
Skin corrosion/irritation		Classification not possible
Serious eye damage/eye irritation		Classification not possible
Respiratory sensitization		Classification not possible
Skin sensitization		Classification not possible
Germ cell mutagenicity		Classification not possible
Carcinogenicity		Classification not possible
Reproductive toxicity		Classification not possible
ENVIRONMENTAL HAZARDS	Specific target organ toxicity – Single exposure	Classification not possible
	Specific target organ toxicity – Repeated exposure	Classification not possible
	Aspiration hazard	Classification not possible
	Acute aquatic toxicity	Classification not possible
	Chronic aquatic toxicity	Classification not possible
	Hazardous to the ozone layer	Classification not possible

SYMBOL No symbol

SIGNAL WORD None

HAZARD STATEMENTS None
 PRECAUTIONARY STATEMENTS None

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE Substance
 CHEMICAL NAME (4R)-4,8-dimethyldecanal
 ANOTHER NAME -
 CHEMICAL FORMULA C₁₂H₂₄O
 CAS NO. 632340-07-9
 REFERENCE NUMBER IN GAZETTED LIST IN JAPAN 2-494

4. FIRST-AID MEASURES

INHALATION Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
 SKIN Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
 EYE After washing at least 15 minutes with clean water, immediately consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.
 INGESTION Rinse mouth immediately with plenty of clean water. Do not induce vomiting. Get immediate medical advice/attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA Carbon dioxide, powder, alcohol-resistant foam, dry sand, water spray, etc.
 EXTINGUISHING MEDIA SHOULD NOT BE USED High power water jet
 SPECIFIC HAZARDS It will be generate a harmful gas (carbon monoxide) by combustion.
 SPECIFIC FIRE FIGHTING METHOD Fire fighting should be done at windward.
 Discharge water from the fire fighting activity shall be managed properly, and the content shall not cause bad impact to the environment.
 PROTECTION FOR PERSON WHO PERFORMS THE FIRE FIGHTING Wear respiration protection.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Do not get in eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapours/spray.
 ENVIRONMENTAL PRECAUTIONS Avoid release to the environment. Direct waste liquid discharge to rivers and soil shall be ensured to not cause bad impact on the environment. Dry sand, soil, sawdust and other waste must be recovered in a container that can be seal. Disposal should be in accordance with the all national/local rules.

7. HANDLING AND STORAGE

HANDLING
 TECHNICAL MEASURES Do not get in eyes, on skin, or on clothing. Use in a well-ventilated area. Wash contaminated clothing before reuse. Wear the appropriate protective equipment. In the event of emergency, the area where this product is being used must be installed with the equipment for eye wash and body cleaning. Keep away from ignition sources such as heat / sparks / open flames / hot surfaces. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
 STORAGE
 APPROPRIATE CONDITION Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL CONCENTRATION	None
ALLOWED CONCENTRATION	None
EQUIPMENT	For enclosed facility, if possible use local exhaust ventilation.
PERSONAL PROTECTION	
RESPIRATORY PROTECTION	Wear mask.
HAND PROTECTION	Wear rubber gloves.
EYE PROTECTION	Wear protective glasses.
SKIN PROTECTION	Wear clothing etc. for experiments if necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colourless transparent viscous liquid
ODOUR	Aldehyde odour
pH	No data available
MELTING POINT	No data available
BOILING POINT	No data available
FLASH POINT	107°C (closed cup)
EVAPORATION RATE	No data available
FLAMMABILITY	No data available
VAPOUR PRESSURE	No data available
VAPOUR DENSITY	No data available
RELATIVE DENSITY	No data available
WATER SOLUBILITY	3.91 mg/L
PARTITION COEFFICIENT:n-OCTANOL/WATER	log Pow:4.8
AUTO-IGNITION TEMPERATURE	No data available
DECOMPOSITION TEMPERATURE	No data available
VISCOSITY	No data available

10. STABILITY AND REACTIVITY

REACTIVITY	Stable in normal storage and handling
CHEMICAL STABILITY	Stable in normal storage and handling
POSSIBILITY OF HAZARDOUS REACTIONS	Stable in normal storage and handling
CONDITIONS TO AVOID	Sunlight, heat, open flames, high temperature, sparks, static electricity and other sources of ignition, humidity, moisture, air
INCOMPATIBLE MATERIALS	No data available
HAZARDOUS DECOMPOSITION PRODUCTS	There is a possibility that the carbon oxide occurs.

11. TOXICOLOGICAL INFORMATION

No data available

12. ECOLOGICAL INFORMATION

ECOTOXICITY	No data available
PERSISTENCE/DEGRADABILITY	No data available
BIOACCUMULATIVE POTENTIAL	No data available
MOBILITY IN SOIL	No data available
OTHER ADVERSE EFFECTS	No data available

13. DISPOSAL CONSIDERATIONS

RESIDUAL WASTE	For disposal, please follow the standards of the related laws and regulations, as well as local government.
POLLUTION CONTAINER AND PACKAGE	The container to be recycled by cleaning or perform a proper disposal according to the criteria of the relevant laws and regulations as well as local government. Completely remove the content when disposing the empty containers.

14. TRANSPORT INFORMATION

NATIONAL REGULATIONS	Not applicable
HAZARDS CLASS	Not restricted by the classification standard of the United Nations.
UN-No.	Not listed.
SPECIAL SAFETY MEASURES	Ensure that there is no damage, corrosion or leakage to the container before transporting.

15. REGULATORY INFORMATION

Japan	
Fire Defense Law:	Class-4 No. 3 petroleums Dangerous grade 3 Not water-soluble fluid

16. Other information

This safety data sheet (SDS), was prepared based on the latest documents available at the moment and it may be revised by new findings. The contents and description serves as the main purpose of providing information, not as a certificate of guarantee. Precautions in this SDS is based on the normal handling the subject. If the product is being used for a special handling, please ensure the suitable implementation of the safety measures. Even though the Company have paid enough attention to the SDS description, it shall not be used as a warranty.
