ThreeBond

SAFETY DATA SHEET

Issue date 16-Nov-2021 Revision Date 16-Nov-2021 Revision Number 1

1. Identification

Product Name ThreeBond 6651F

Recommended use of the chemical and restrictions on use

Recommended use Cleaner

Details of the supplier of the safety data sheet

Supplier ThreeBond Fine Chemical Co., Ltd.

1-1 Oyama-cho, Midori-ku, Sagamihara-shi, Kanagawa 252-0146 Japan

Emergency telephone number +81-42-703-7126 (Inquiries regarding SDS content)

+81-42-670-5333 (Inquiries regarding the product or SDS claim)

2. Hazard(s) identification

GHS - Classification

Aerosols	Category 3
Acute toxicity - Oral	Classification not possible
Acute toxicity - Dermal	Classification not possible
Acute toxicity - Inhalation (Gases)	Classification not applicable
Acute toxicity - Inhalation (Vapors)	Classification not possible
Acute toxicity - Inhalation (Dusts/Mists)	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
Effects on or via lactation	No effects on or via lactation
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	Category 3
Chronic aquatic toxicity	Category 3
Ozone	Classification not possible

GHS label elements

Signal word Warning

Hazard statements

H412 - Harmful to aquatic life with long lasting effects H229 - Pressurized container: May burst if heated

Prevention

Avoid release to the environment.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use.

Response

Storage

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal

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

Other hazards

No information available.

3. Composition/information on ingredients

Pure substance/mixture

Mixture

Chemical name	CAS No	Weight-%	ENCS Number	ISHL No
Carbon dioxide	124-38-9	1-<5	(1)-169	(1)-169
Fluorine compound	-	90-<99	-	-

Pollutant Release and Transfer Registry (PRTR)

Not applicable

Industrial Safety and Health Law

ISHL Notifiable Substances

Not applicable

Harmful Substances Whose Names Are to be Indicated on the Label

Not applicable

Poisonous and Deleterious Substances Control Law

Not applicable

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)

Not applicable

4. First-aid measures

In case of inhalation Remove to fresh air.

In case of skin contact Wash skin with soap and water.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

In case of ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms/effects,

acute and delayed

No information available.

Note to physicians Treat symptomatically.

5. Fire-fighting measures

surrounding environment.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

Flammable properties Containers may explode when heated.

Special extinguishing media

Large Fire

Cool container with water spray.

CAUTION: Use of water spray when fighting fire may be inefficient.

Special protective equipment and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures

Ensure adequate ventilation.

Use personal protection recommended in Section 8. For emergency responders

Environmental precautions See Section 12 for additional Ecological Information.

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Handling

Advice on safe handling Take equipment measures listed in Section 8. Wear protection gear.

Storage

Storage Conditions Refer to technical data sheet or material sgreement and other documents for storage

temperature range.

8. Exposure controls/personal protection

Showers **Engineering controls**

> Eyewash stations Ventilation systems.

Exposure guidelines

Chemical name	Japan Society of Occupational Health	ISHL Working Environmental Evaluation Standards -	ACGIH TLV
		Administrative Control Levels	
Carbon dioxide	TWA: 5000 ppm	-	STEL: 30000 ppm
124-38-9	TWA: 9000 mg/m ³		TWA: 5000 ppm

Biological occupational exposure

limits

Not applicable

Environmental exposure controls Install local ventilation or seal source of substances. Install safety shower, hand wash, and

eye wash station. Clearly indicate the location.

Personal protective equipment

Respiratory protection In case of inadequate ventilation wear respiratory protection.

Hand protection Wear appropriate protection glove (Made from non-permeable material such as

polyethylene, rubber).

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protection apron, protection boots. Wear long sleeve cloth.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Color colorless
Odor Solvent odor

Property Values Remarks • Method

Melting point / freezing point no data available
Boiling point / boiling range no data available
Flammability no data available

Upper/lower flammability or explosive limits no data available

Upper flammability or explosive

limits

Lower flammability or explosive

limits

Flash point Not flammable Tag closed cup Autoignition temperature no data available

Decomposition temperature
pH
no data available

(n-octanol/water)

Vapor pressureno data availableRelative vapor densityno data available

Relative density 1.32

Particle characteristics

Particle Size no data available Particle Size Distribution no data available

10. Stability and reactivity

Stability It is stable in a cool, dark place in a closed state.

Possibility of hazardous reactions Toxic gas (HF gas) may be generated by decomposition.

Conditions to avoid Direct sunlight, Heat, Direct contact with fire.

Incompatible materials Metal halide, Strong oxidizing agents, Strong reducing agents, Strong oxidants, strong

Lewis acids, strong inorganic acids, strong inorganic bases, organic bases, especially primary and secondary aliphatic amines.

Hazardous decomposition products. Hydrogen chloride. Hydrogen fluoride.

11. Toxicological information

Acute toxicity

Classification not possible.

Numerical measures of toxicity - Product Information

No information available

Symptoms No information available.

Product Information

Ingestion Specific test data for the substance or mixture is not available.

Inhalation Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin corrosion/irritationBased on available data, the classification criteria are not met. Classification not possible.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Classification not possible.

Respiratory or skin sensitization Classification not possible.

Germ cell mutagenicityBased on available data, the classification criteria are not met. Classification not possible.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicityBased on available data, the classification criteria are not met. Classification not possible.

STOT - single exposureBased on available data, the classification criteria are not met. Classification not possible.

STOT - repeated exposureBased on available data, the classification criteria are not met. Classification not possible.

Aspiration hazard Based on available data, the classification criteria are not met. Classification not possible.

12. Ecological information

Davis 5 / 7

Ecotoxicity Classification not possible.

Percentage for unknown

hazards

0 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Persistence and degradability No information available.

Bioaccumulation No information available.

Mobility in soil No information available.

Hazardous to the ozone layer Classification not possible. Based on available data, the classification criteria are not met.

Other adverse effects No information available.

13. Disposal considerations

Waste from residues/unused

products

Dispose of in accordance with national, state and local regulations. Consult industrial waste managent companies for waste. Do not release this product to natural environment nor

reclaim.

Contaminated packaging Dispose containers as same as residual of this product.

14. Transport information

IMDG

UN number or ID number UN1950 UN proper shipping name Aerosols

Description UN1950, Aerosols, 2.2

Transport hazard class(es) 2.2 Marine pollutant NP

<u>ADR</u>

UN/ID No. UN1950 Proper shipping name Aerosols

Description UN1950, Aerosols, 2.2, (E)

Transport hazard class(es) 2.2 ERG code 10L

Special provisions 327, 625, 344, 190

<u>IATA</u>

UN/ID No. UN1950

Proper shipping name Aerosols, non-flammable

Description UN1950, Aerosols, non-flammable, 2.2

Transport hazard class(es) 2.2

Japanese regulations

UN Number UN1950 Proper shipping name Aerosols

Description UN1950, Aerosols, 2.2

Hazard class 2.2

15. Regulatory information

National regulations

Pollutant Release and Transfer Registry (PRTR)

Not applicable

Industrial Safety and Health Law

Not applicable

ISHL Notifiable Substances

Not applicable

Poisonous and Deleterious Substances Control Law

Not applicable

Explosives Control Law

Not applicable

High Pressure Gas Safety Act

Not applicable

Fire Service Law:

Non-hazardous material

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)

Not applicable

Ship (Marine Transportation) Safety Act

See section 14 for more information

Civil Aeronautics Act

See section 14 for more information

16. Other information

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Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) Ceiling Maximum limit value

* Skin designation + Sensitizers

Key literature references and sources for data

JIS Z 7252:2019 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)". JIS Z 7253:2019 Hazard communication of chemicals based on GHS-Labelling and Safety Data Sheet (SDS).

Disclaimer

This SDS complies with the requirements of JIS Z 7252:2019 and JIS Z 7253:2019 (Japan). The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.