

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Eco Magna Fluorescent Magnetic Particle Concentrated Suspension LY-40Conc.

Product code(SDS NO): LY041_E1-5

Details of the supplier of the safety data sheet

Manufacturer/Supplier: MARKTEC CORPORATION

Address: 17-35,OMORI-NISHI, 4-Chome, OTA-Ku, TOKYO 143-0015 JAPAN

Telephone number: +81-3-3762-4453

FAX: +81-3-3768-3958

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

ENVIRONMENT HAZARDS

Hazardous to the aquatic environment – acute hazard: Category 2

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

Label elements

No hazard pictogram

No Signal word

HAZARD STATEMENT

Toxic to aquatic life

PRECAUTIONARY STATEMENT

Prevention

Avoid release to the environment.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Keep container tightly closed.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Use personal protective equipment as required.

Do not eat, drink or smoke when using this product.

Response

Get medical advice/attention if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

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

Store at temperatures not exceeding 40°C.

Disposal

Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredient name	Content(%)	CAS No.
Water	55 - 65	7732-18-5
Iron oxide	5 - 15	1309-38-2/1222 7-89-3/1317-61 -9
Surfactant	5 - 15	Registered
Resin	1 - 10	Registered
Sodium nitrite	1 - 5	7632-00-0
Triethanolamine	1 - 5	102-71-6
Adipic acid	0.1 - 2	124-04-9
Silica, amorphous	0.1 - 2	112926-00-8/76 31-86-9
Isopropyl alcohol	< 1	67-63-0
Methanol	< 1	67-56-1

Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures

General measures

Get medical attention/advice if you feel unwell.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Do not let the victim rub his eyes.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER or doctor/physician.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non-flammable.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Ventilate area after material pick up is complete.

Wear proper protective equipment.
Be careful not to slip on spilled area.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Preventive measures for secondary accident

Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

Exhaust/ventilator

Exhaust/ventilator should be available.

Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures/Incompatibility

Use only outdoors or in a well-ventilated area.

Wear protective gloves/eye protection/face protection.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Store at temperatures not exceeding 40°C.

8. Exposure controls/personal protection

Control parameters

Adopted value

(Triethanolamine)

ACGIH(1990) TWA: 5mg/m³ (Eye & skin irr)

(Adipic acid)

ACGIH(1990) TWA: 5mg/m³ (URT irr; ANS impair)

(Methanol)

ACGIH(2008) TWA: 200ppm

STEL: 250ppm (Headache; eye dam; dizziness; nausea)

(Isopropyl alcohol)

ACGIH(2001) TWA: 200ppm

STEL: 400ppm (Eye & URT irr; CNS impair)

Notation

(Methanol)

Skin

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Safety and Health measures

Wash ... thoroughly after handling.

Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties

Appearance: Liquid

Color: Dark green

Odor: Very little odor

pH: 7.7(0.5% aqua)

Phase change temperature

Initial Boiling Point/Boiling point: $\geq 100^{\circ}\text{C}$

Flash point: Not applicable

Specific gravity/Density: 1.15g/cm³

Solubility

Solubility in water: Soluble

10. Stability and Reactivity

Chemical stability

Stable under normal storage/handling conditions.

11. Toxicological Information

Information on toxicological effects

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

Carcinogenicity

(Triethanolamine)

IARC-Gr.3 : Not Classifiable as a Human Carcinogen

(Isopropyl alcohol)

IARC-Gr.3 : Not Classifiable as a Human Carcinogen

(Silica, amorphous)

IARC-Gr.3 : Not Classifiable as a Human Carcinogen

(Isopropyl alcohol)

ACGIH-A4(2001) : Not Classifiable as a Human Carcinogen

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

Additional data

There are no data available on the preparation itself.

12. Ecological Information

Toxicity

Aquatic toxicity

Toxic to aquatic life

Water solubility

(Triethanolamine)

Miscible in water (HSDB, 2013)

(Adipic acid)

1.4 g/100 ml (15 C) (ICSC, 1998)

(Methanol)

100 g/100 ml (PHYSPROP Database, 2009)

(Isopropyl alcohol)

In water, infinitely soluble (25 C) (HSDB, 2013)

(Sodium nitrite)

82 g/100 ml (20 C) (ICSC, 2000)

Persistence and degradability

(Isopropyl alcohol)

Degrade rapidly (Degradation : 86% (Registered chemicals data check & review, 1993))

(Triethanolamine)

Not degrade rapidly (BOD_Degradation : 0% (Registered chemicals data check & review, Japan 1978))

(Adipic acid)

Degrade rapidly (BOD_Degradation : 85, 68, 90% (Registered chemicals data check & review, Japan 1989))

Bioaccumulative potential

(Methanol)

log Pow=-0.82/-0.66 (ICSC, 2000)

(Isopropyl alcohol)

log Pow=0.05 (ICSC, 1999)

(Sodium nitrite)

log Pow=-3.7 (ICSC, 2000)

(Triethanolamine)

log Pow=-2.3 (ICSC, 2003)

(Adipic acid)

log Pow=0.08 (PHYSPROP Database, 2009)

No Mobility in soil data available

Ozone depleting chemical data not available

Additional information

There are no data available on the preparation itself.

13. Disposal considerations

Waste treatment methods

Avoid release to the environment (- if this is not the intended use).

Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No, UN CLASS

Not applicable to UN NO.

Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Noxious Liquid ; Cat. Y

Methanol; Sodium nitrite

Noxious Liquid ; Cat. Z

Triethanolamine; Isopropyl alcohol

Non Noxious Liquid ; Cat. OS

Water

15. Regulatory Information

Other regulatory information

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Regulatory information in this section are limited to intentional ingredient(s) and/or impurities informed by supplier(s).

16. Other information

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit., 2013 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2016 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

General Disclaimer

To the best of our knowledge, the information contained here in is accurate. However, we assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of user. All material may present unknown hazards and should be used in caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist.

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The GHS classification data given here is based on current EU official data (EU CLP published in 01.06.2015).