

Safety Data Sheet

1. PRODUCT AND COMPANY INFORMATION

Product name : HOT STAMPING FOIL
Company : DONGJIN ENTERPRISE Co., LTD
Address : #75-7, Geurugogae-ro 221beon-gil, Gwangjeok-myeon, Yangju-si,
 Gyeonggi-do, 11415, Republic of Korea
Telephone : + 82 31 836 7518
Fax : + 82 31 836 7654
E-mail : djent@naver.com
Website : www.dongjinfilm.com

Recommended use of the chemical and restrictions on use

Recommended use : Stamping materials for textile

Restrictions on use : It is inedible.

2. HAZARDS IDENTIFICATION

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Physical hazard : Not applicable

Health hazard : Not applicable

Environment hazard : Not applicable

Label elements including precautionary statements

Symbol / Signal word : Not applicable

Hazard statements / Precautionary statements : Not applicable

NFPA Rating

Health : 0

Flammability : 1

Reactivity : 0

Water reactivity : 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	EINECS No.	Conc. %
Polyethylene terephthalate	25038-59-9	607-507-1	91.38 %
Aluminium : film	7429-90-5	231-072-3	0.65 %

Acid yellow 121	5601-29-6	227-022-5	0.28 %
Hydrogen bis(2,4-dihydro-4-((2-hydroxy-5-nitrophenyl)azo)-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-))chromate(1-)	52256-37-8	257-789-1	0.14 %
Silica	7631-86-9	231-545-4	0.03 %
Cellulose acetate	9004-35-7	618-380-7	0.27 %
Acrylic resin	9003-01-4	618-347-7	7.25 %

4. FIRST AID MEASURES

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of skin contact

No data available

If inhaled

If breathed in, move person into fresh air.

If not breathing, give artificial respiration.

If swallowed

Never give anything by mouth to an unconscious person.

Potential health effect

May be harmful if swallowed.

Other medical attention.

Medical personnel should be aware of the protective measures of the substance.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : No flash occurred under 93 °C (Rapid equilibrium method)

Autoignition temperature : No spontaneous combustion under 200 °C

Burning rate : < 1.4 mm/s at 20 °C (UN TDG test & criteria - Test N1)

Suitable extinguisher

Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

Specific hazards arising from the chemical

No data available

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing dust.

Environmental precautions

No data available

Methods and materials for containment and cleaning up

Pick up and arrange disposed materials without creating dust.

7. HANDLING AND STORAGE

Precautions for safe handling

Remove all sources of ignition.

Provide appropriate exhaust ventilation at places where dust is formed.

Avoid breathing dust.

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

Conditions for safe storage

Avoid heat sources, and strong oxidizing agents.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Components with workplace control parameter

KOSHA :	Chemical Name	TWA	STEL
	Aluminium	10 mg/m ³	-

ACGIH :	Chemical Name	TLV	STEL
	Aluminium	1 mg/m ³ , respirable fraction	-

Appropriate engineering controls : Ventilation

Personal protective equipment

Respiratory protection : Dust mask

Hand protection : Protective gloves

Eye protection : Protective goggles

Skin and body protection : Working clothes

9. PHYSICAL AND CHEMICAL PROPERTIES

State : Solid (Not powder) at 20 °C

Appearance : Flexible sheets

pH : 6.5 ~ 7.5 at 20 °C ※ Sample : H₂O = 1 : 5 (V/V)

Flash point : No flash occurred under 93 °C (Rapid equilibrium method)

Autoignition temperature : No spontaneous combustion under 200 °C

Water solubility : Water Insoluble at 20 °C

Relative density : 1.0 at 20 °C

Flammability

Burning rate : < 1.4 mm/s at 20 °C ※ UN TDG test & criteria - Test N1

Explosive properties : No self-reaction hazard ※ UN TDG test & criteria - Test E3

Melting range : > 100 °C

Boiling point (Initial) : No data available

Vapour pressure : No data available

Decomposition temperature : No data available

Partition coefficient (*n*-octanol/water) : No data available

Viscosity : No data available

Lower explosion limit / Upper explosion limit : No data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under general condition.

Conditions to avoid

Avoid dust formation.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral	rat	LD50 : > 2,000 mg/kg	※ from US NLM / ECHA
Inhalation	rat	LC50 : No data available	
Skin	rabbit	LD50 : No data available	

Skin irritation : No data available

Eye irritation : No data available

Respiratory sensitization : No data available

Skin sensitization : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : Not classifiable ※ from CCRIS / IARC

Reproductive toxicity : No data available

Specific target organ toxicity – single exposure (GHS) : No data available

Specific target organ toxicity – repeated exposure (GHS) : No data available

Aspiration hazard : No data available

12. ECOLOGICAL INFORMATION

Toxicity

Fish LC50 : No data available ※ from US NLM / ECHA

Crustacean EC50 : > 100 mg/L, 48 h

Algae EC50 : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Other adverse effects : No data available

13. DISPOSAL CONSIDERATIONS

Disposal consideration

Observe all environmental regulations.

Disposal precaution

Keep in suitable, closed containers for disposal.

14. TRANSPORT INFORMATION

UN TDG : Not dangerous goods

IATA : Not dangerous goods

IMDG : Not dangerous goods

Marine pollution : Not applicable

Special precaution

Fire EmS Guide : F-E (Recommendation)

Spillage EmS Guide : Not dangerous goods

15. REGULATORY INFORMATION

Korea Industrial Safety and Health Act :

GHS : Not applicable

Material(s) applied by workplace exposure limits : Aluminium
Korea Chemicals Control Act : Not toxic chemical
Korea Hazardous Materials Safety Control Act : Not hazardous material
Korea Waste Control Act : General waste
Korea Persistent Organic Pollutants Control Act : Not applicable
US OSHA Hazards (GHS) : Not applicable

16. OTHER INFORMATION

Issued Date : 2017. 07. 26.

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References

- GHS Classification :
Korea MSDS Testing Lab Certificate (Report No. 2017-03-002807), US NLM
- Physical and chemical properties : Korea MSDS Testing Lab Certificate
- Transport information : Korea MSDS Testing Lab Certificate
- Toxic & ecological information : OECD SIDS, ECHA, US NLM, HSDB, IARC, CCRIS, JP NITE

Acronyms and Websites

- ECHA : European chemical agency, <http://echa.europa.eu/>
- US NLM : U.S. National Library of Medicine, <http://chem.sis.nlm.nih.gov/chemidplus/>
- HSDB : US Hazardous Substances Data Bank, <http://toxnet.nlm.nih.gov/>
- CCRIS : US Chemical Carcinogenesis Research Information System, <http://toxnet.nlm.nih.gov/>
- IARC : International Agency for Research on Cancer, <http://monographs.iarc.fr/>
- JP NITE : Japan National Institute of Technology and Evaluation, <http://www.safe.nite.go.jp/>

※ Hazards Testing and Classification

Korea MSDS Testing Laboratory

Website : www.msdkorea.com

Telephone : +82 31 337 3701 / 3702

Address : #12, Iwon-ro, Idong-eup, Cheoin-gu, Yongin-city, Gyeonggi-do, 17128, Rep. of Korea



This SDS' composition/information on ingredient(s) and recommended use are provided by the mentioned company in this SDS' section 1.

This SDS is composed in line with Korea Occupational Safety and Health Act (KOSHA) Article 41, to protect the health of the employees, and for documentation.

This SDS is composed with reference to criteria provided by KOSHA.

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