



Material Safety Data Sheet

acc. to ISO/DIS 11014

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1 Identification of Substance

- **Product details**
- **Trade name:** CREDIT CARD INK
- **Article number:** 3081
- **Application of the substance / the preparation:** Screen Printing Ink
- **Manufacturer/Supplier:**
SMILEY PRINTING SOLUTIONS CO.,LTD.
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- **Information department:** Technical Services Department.

2 Hazard Identification

Hazard description: T Toxic

Information concerning particular hazards for human and environment: The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- R 45 May cause cancer.
R 10 Flammable.
R 21/22 Also harmful in contact with skin and if swallowed.
R 36/37 Irritating to eyes and respiratory system.
R 40 Limited evidence of a carcinogenic effect.

Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

GHS label elements

Danger

- 2.11/1 - Self-heating: may catch fire.
2.6/3 - Flammable liquid and vapour.

Danger

- 3.6/1B - May cause cancer.

Warning

- 3.1/4 - Harmful if swallowed.
3.1/4 - Harmful in contact with skin.
3.3/2A - Causes serious eye irritation.
3.8/3 - May cause respiratory irritation.

Prevention:

- Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Keep cool. Protect from sunlight.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/ equipment.
Use only non-sparking tools.

Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific measures (see label).
Rinse mouth.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO₂, powder or water spray.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Maintain air gap between stacks/pallets.
Store away from other materials.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

3 First aid Measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Immediately wash with water and soap and rinse thoroughly.
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: Call for a doctor immediately.

4 Fire Fighting Measures

Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents:
Water
Water with full jet
Protective equipment: No special measures required.

5 Accidental Release Measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
Measures for environmental protection: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 12.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

6 Safe Handling and Storage Measures

Handling:

Information for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Prevent formation of aerosols.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.

7 Exposure Control Measures

Additional information about design of technical facilities: No further data

Ingredients with limit values that require monitoring at the workplace:

Trade Secret

OES Short-term value: 29 mg/m³, 5 ppm

Trade Secret

OES Short-term value: 7 mg/m³

Long-term value: 3.5 mg/m³

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves :

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material :

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye Protection:

Tightly sealed goggles

8 Physical and Chemical Properties

Chemical characterization

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

Trade Secret	Xn, Xi; R 21/22-36/37-40	20-40%
Danger:	3.1.O/3, 3.1.D/3, 3.3/2A, 3.8/3	
Warning:	3.6/2	

Trade Secret	T; R 45-10-65	< 10%
Danger:	3.6/1B, 3.10/1	
Warning:	2.6/3	

Trade Secret	Danger:	2.11/1	< 10%
Additional information:			

9 Chemical Stability and Reactivity Information

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

10 Toxicology Information

Acute toxicity:

LD/LC50 values relevant for classification:

Trade Secret

Oral LD50 2330 mg/kg (rat)

Dermal LD50 1500 mg/kg (rbt)

Trade Secret

Oral LD50 >6800 mg/kg (rat)

Dermal LD50 >3400 mg/kg (rab)

Inhalative LC50/4 h >10.2 mg/l (rat)

Primary irritant effect:

On the skin: No irritant effect.

On the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

Carcinogenic

11 Ecological Information

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

12 Waste Disposal Measures

Product:

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

13 Transport Information

Land transport ADR/RID (cross-border)

ADR/RID class: 4.2 Substances liable to spontaneous combustion.

Danger code (Kemler): 40

UN-Number: 1993

Packaging group: II

Hazard label: 4.2

Description of goods: SCREEN PRINTING INK

Maritime transport IMDG:

IMDG Class: 4.2

UN Number: 1993

Label: 4.2

Packaging group: II

EMS Number: F-E,S-E

Marine pollutant: No

Proper shipping name: SCREEN PRINTING INK

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 4.2

UN/ID Number: 1993

Label: 4.2

Packaging group: II

Proper shipping name: SCREEN PRINTING INK

14 Regulatory Information

Labeling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous

Materials.

Code letter and hazard designation of product:

T Toxic

Hazard-determining components of labeling:

Trade Secret

Trade Secret

Risk phrases:

- 45 May cause cancer.
- 10 Flammable.
- 21/22 Also harmful in contact with skin and if swallowed.
- 36/37 Irritating to eyes and respiratory system.
- 40 Limited evidence of a carcinogenic effect.

Safety phrases:

- 53 Avoid exposure - obtain special instructions before use.
- 1/2 Keep locked up and out of the reach of children.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

National regulations:

Technical instructions (air):

Class	Share in %
I	30-40
NK	5-10

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases

- 10 Flammable.
- 21/22 Harmful in contact with skin and if swallowed.
- 36/37 Irritating to eyes and respiratory system.
- 40 Limited evidence of a carcinogenic effect.
- 45 May cause cancer.
- 65 Harmful: may cause lung damage if swallowed.

Department issuing MSDS: Technical Services

Contact: **Mr. Medhi Kulasiriswatdi**

Abbreviations and acronyms:

ADR: Accord europeen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernent le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals