

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

1.1 Product identifier

Product name ORALITE® 5018 screen printing ink
Chemical name and synonym
Apply to the colours Nr.: 020, 030, 035, 050, 060, 070, 073, 080

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses screen printing ink for printing

1.3 Details of the supplier of the safety data sheet

Supplier ORAFOL Europe GmbH
Orafolstraße 2
16515 Oranienburg
Germany
Tel.: + 49 03301 864 0
Fax.: + 49 03301 864 100

1.4 Emergency telephone number

Information Centre for symptom of poisoning berlin Tel.: + 49 030 19 240

2. Hazard identification.

2.1 Classification of the substance or mixture

Classification 67/548/EEC

R10 Flammable

Classification (EC) No 1272/2008

Physical and Chemical Hazards

Flam. Liq. 3 H226

The Full Text for all R Phrases and Hazards Statements are Displayed in Section 16.

2.2 Label elements 67/548/EEC

Label

R - Phrases

R10

Flammable

S - Phrases

S20/21

S24/25

S51

Do not eat, drink or smoke when using this product

Do not get eyes, on skin, or on clothing

Use only outdoors or in a well – ventilated area

(EC) No 1272/2008

Label



Signal word

Warning

Hazard Statements

H226

Flammable liquid and vapour

Precautionary Statements

P210

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

P233

Keep container tightly closed

P501

Dispose of contents/container to

2.3 Other hazards

Not Classified as PBT/vPvB by current EU criteria.

3. Composition/Information on Ingredients

3.1 Substance

Product name

ORALITE® 5018 screen printing ink

3.2 Mixtures

Hazardous Ingredients

Product name / CAS-No.	Classification 67/548/EEC	Classification (EC) No 1272/2008	Substance (%)
Butylglycol-acetat 112-07-2	Xn R20/21/22	H332 Akute Tox. 4 H312 Akute Tox. 4 H302 Akute Tox. 4	5 - 15
Propylenglycol- monomethylether - acetat 108-65-6	R10	H226 Flam. Liq.3	7-15
Xylene / 1330-20-7	Xi, Xn, R10,20/21,36/37/38,65	H226 Flam. Liq.3 H332 Akute Tox. 4 H312 Akute Tox. 4 H315 Hautreiz. 2 H319 Augenreizend 2 H335 Spezifische Ziel- organ Toxizität 3 H373 STOT wdh.2 H304 Asp. 1	0,5 - 5
Bis(1,2,2,6,6- pentamethyl-4- piperidyl) sebacate / 41556-26-7	Xi, N R43,50/53	H317 Sens. Haut 1 H400 Aqu. akut. 1 H410 Aqu. Chron. 1	<0,5

The Full Text for all R Phrases and Hazards Statements are Displayed in Section 16.

4. First aid measures

4.1 Description of first aid measures

Inhalation	Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.
Ingestion	Obtain immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Eye contact	Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention.
Skin contact	Wash immediately with plenty of water. In either case obtain medical opinion if any discomfort occurs.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by contained substances and see chap 11.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment

5. Extinguishing media

5.1 Extinguishing media

Extinguishing media

Extinguishers with foam, carbon dioxide, dry powder, or water spray/mist.

Unsuitable extinguishing media

Do not use water jet as this can spread the fire.

5.2 Special hazards arising from the substance or mixture

Fire creates toxic and irritating fumes and vapours.

Hazardous combustion products Carbon monoxide (CO), Carbon dioxide (CO₂) and nitrogen oxide.

5.3 Advice for fire-fighters

Protective equipment for fire-fighters

Self-contained breathing apparatus and protective clothing must be worn in case of fire.

Special Fire Fighting Procedures

Containers close to the fire area should be cooled with water if safe to do so.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use protective clothing and equipment as described in section 8 of this datasheet. Isolate all sources of ignition. Provide adequate ventilation. Avoid ingestion, inhalation of vapours.

6.2 Environmental precautions

Avoid unauthorised discharge to the environment.

Do not discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Isolate all ignition sources. Avoid heat, flames, sparks and static discharge. NO SMOKING.

Dam and absorb spillages with suitable inert absorbent material.

Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Wash spillage site well with water and detergent.

6.4 Reference to other sections

Refer to sections 8 and 13 for additional information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Do not eat, drink or smoke when handling. Do not use in confined spaces without adequate ventilation and/or respirator.

Static electricity and formation of sparks must be prevented. Eliminate all sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Flammable/combustible - Keep away from heat and flames. Avoid all ignition sources. Store in area with adequate ventilation and sufficient air movement to prevent any build up of vapours. Store away from heat, direct sunlight and moisture. Store away from acids agents. Keep away from aluminum and zinc. Flammable liquid storage.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored to German guidelines TRGS 900 from 01/2006.

WEL = Workplace Exposure Limit.

2-Methoxy-1-methylethylacetat (108-65-6)

WEL: 50 ml/m³ or 270 mg/m³

pregnancy group Y

Xylene (1330-20)

WEL: 100 ml/m³ or 400 mg/m³

Skin designation H

8.2 Exposure controls

Occupational exposure controls

If user operations generate dust, fume or mist, use local exhaust ventilation to keep airborne levels below recommended exposure limits.

Personal protective equipment

Respiratory protection

Use an approved respirator if a risk assessment indicates this is necessary.

Respiratory filter (gas) : A

Hand protection

Use chemical protection gloves when handling the product. Gloves should conform to EN 374. Convenient material for Gloves are nitrile- or butyl rubber. Penetration time depend on material and thickness of the 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

Avoid contact with eyes. Use safety glasses.

Skin protection

Avoid contact with the skin. Wash with soap and water after contact.

General protective and hygiene measures

The usual precautionary measures for the handling of chemicals have to be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form	liquid
Colour	according to desired tint
Odour	characteristic

Safety and environmental information

pH value	not applicable
Boiling point	140 °C
Melting point	no information available
Flash point	>21 °C
Ignition temperature 2- Methoxy-1-methylethylacetat	315 °C
Explosion limits	no information available
Vapour pressure	no information available
Relative density	< 1,0 g/cm ³
Solubility in water	no information available
Viscosity	no information available
Vapour density	no information available
Evaporation rate	no information available

9.2 Other information

All available information about the substance has been included in section 9.1.

If more becomes available from the manufacturer then this datasheet will be updated.

10. STABILITY AND REACTIVITY**10.1 Reactivity**

Can react with strong acids and oxidising agents.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Will not polymerise. Vapours may form an explosive mixture with air.

10.4 Conditions to avoid

Avoid sources of heat and ignition. Avoid direct sunlight and moisture. Avoid storage with incompatible materials

10.5 Incompatible materials

Strong acids and oxidizing agents.

10.6 Hazardous decomposition products

When exposed to high temperatures, dangerous decomposition products such as carbon dioxide, carbon monoxide and hydrogen chloride can be produced.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Xylene

oral LD50 >2000-5000 mg/kg
Inhalativ LC50 11 mg/l (4h, vapor)

Skin contact

Moderately Irritating to skin, swelling, redness and dryness is possible after repeated or prolonged contact. Product has a defatting effect on skin.

Eye contact

Irritating, redness and lachrimation is possible.

Inhalation

Could cause: Headache, Dizziness, Irritation of the respiratory system, Nausea Fatigue.

Ingestion

No information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

There are no data available on the preparation itself. Do not empty into waters or drains.

Xylene

Acute Toxicity – Fish

Species:

LC50: 26,7 mg/l (96h)

Pimephales promelas

Species:

LC50: 16,9 mg/l (96h)

Carassius auratus

Species:

LC50: 20,9 mg/l (96h)

Lepomis macrochirus

Species:

LC50: 34,7 mg/l (96h)

Poecilia reticulata

Acute Toxicity – Aquatic Invertebrates

Species:

EC50: 1 mg/l (48h)

Daphnia magna

Acute Toxicity - Microorganisms

Species:

IC50: 2,2 mg/l (72h)

Algae

12.2 Persistence and degradability

There are no data available on the preparation itself.

12.3 Bio accumulative potential

12.4 Mobility in soil

There are no data available on the preparation itself.

12.5 Results of PBT and vPvB assessment

There are no data available on the preparation itself.

12.6 Other adverse effects

There are no data available on the preparation itself.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of or incinerate in accordance with corresponding regulations.

Code of waste pursuant to European Council Directive on waste: 080308 aqueous liquid waste containing ink.

14. TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263

14.2. UN proper shipping name

Paint

14.3. Transport hazard class(es)

ADR/RID/ADN Class	Class 3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	



14.4. Packing group

ADR/RID/ADN	Packing group III
IMDG	Packing group III
ICAO	Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

EMS: F-E, S-E

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

No information available.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.

Labelling in accordance with EC directives

The product is classified and labeled in accordance with EC directives/GefStoff V

National regulations (Germany)

Water Hazard Class

Wassergefährdungsklasse: WGK 2 water endangering (according VwVwS)

15.2 Chemical Safety Assessment

No information available.

16. OTHER INFORMATION

General information

This datasheet is not intended to be a replacement for a full risk assessment; these should always be carried out by competent persons.

Full text of the products listed in Chapters 2 and 3 R-Phrases

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R 36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitisation by skin contact.
R65	Harmful: may cause lung damage if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term. Adverse. effects in the aquatic environment.

Full text of the products listed in Chapters 2 and 3 Hazard Statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.



Europe GmbH

Safety Data Sheet

according to (EG) 1907/2006

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H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

The instructions are based on today's information and knowledge. The safety data sheet describes products in relation to safety requirements. These instructions do not assure application technological properties of the product.