

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Top Concentrated Micro-Pigment
 CAS No. Mixture.
 EINECS No. Mixture.
 REACH Registration No None assigned.

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

Identified use(s) Uses advised against None known.

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Not classified as dangerous for supply/use.

2.1.2 Directive 67/548/EEC & Directive 1999/45/EC

Not classified as dangerous for supply/use.

2.2 Label elements

Product Name Hazard Pictogram According to Regulation (EC) No. 1272/2008 (CLP)
 Signal word(s) None.
 Hazard statement(s) None.
 Precautionary statement(s) None.

2.2.1 Label elements

Product Name According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard Symbol

HYDROCARBON BASED.

Risk Phrases

None.

Safety Phrases

None.

2.2 Other hazards

None.

2.3 Additional Information

None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Top Concentrated Micro-Pigment



Ingredient Name	%	CAS
Water	47%	7732-18-5
diisostearyl malate	20%	7732-18-5
titanium dioxide	5%	13463-67-7
hydrogenated jojoba oil	8%	61789-91-1
vitamin E	1.5%	50-24-7
CI 45410	5%	4618-23-9
CI 77891	5%	13463-67-7
CI 77499	8.5%	1317-61-9

3.2 Additional Information

None.

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Unlikely route of exposure. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

Wash with plenty of soap and water. If symptoms persist, obtain medical attention.

Eye Contact

Flush eyes with water for at least 15 minutes.

Ingestion

Wash out mouth with water. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Unlikely to be required but if necessary treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

No special requirements.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Extinguish with dry chemical or foam.

Unsuitable Extinguishing Media

Water jet spray.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes:

Carbon monoxide, Carbon dioxide.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. Ensure adequate ventilation. Wash hands thoroughly after handling.

6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water.

6.4 Reference to other sections

See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide adequate ventilation. Wash hands and exposed skin after use.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, well ventilated place.

Storage Temperature

Ambient.

Storage Life

Stable under normal conditions.

Incompatible materials

Strong oxidising agents.

7.3 Specific end use(s)

For use in the Magnetic Particle Inspection Process (BS EN ISO 9934 – 2 – 2002). Dilution Rate 50:1 with a suitable hydrocarbon carrier.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Not established

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

Not established.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation.

8.2.2 Personal protection equipment

Eye/face protection

Wear protective eye glasses for protection against liquid splashes.

Skin protection (Hand protection/ Other)

Recommended: Wear suitable gloves.

Respiratory protection

Not normally required.

Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Do not release large quantities into the surface water or into drains.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Liquid.

Colour

Various colors.

Odour

Paraffinic odour.

Odour Threshold (ppm)

Not established.

pH (Value)

Not available.

Melting Point (°C)

Boiling Point (°C)

Not available.

Flash Point (°C)

>100°C

Evaporation rate

Not applicable.

Flammability

Non-flammable.

Explosive limit ranges

Not applicable.

Vapour Pressure (mm Hg)

Not applicable.

Vapour Density (Air=1)

Not available.

Density (g/ml) @ 20°C

4.6g/ml (Triiron Tetraoxide)

Specific Gravity

Not available.

Solubility (Water)

Insoluble.

Solubility (Other)

Not available.

Partition Coefficient (n-Octanol/water)

Not available.

Auto Ignition Temperature (°C)

Not applicable.

Decomposition Temperature (°C)

Not available.

Kinematic Viscosity

Not available.

Explosive properties

Not available.

Oxidising properties

No information available.

9.2 Other information

None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Stable under normal conditions.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous Decomposition Product(s)

Carbon monoxide, Carbon dioxide.

11. SECTION 11: TOXICOLOGICAL INFORMATION

Unlikely to cause harmful effects under normal conditions of handling and use.

11.1 Information on toxicological effects

11.1.1 Mixtures

Acute toxicity

Low acute toxicity.

Triiron Tetraoxide:

Oral: LD50(rat) >10000mg/kg

Not classified.

Not classified.

It is not a skin sensitizer.

There is no evidence of mutagenic potential.

No evidence of carcinogenicity.

None anticipated.

None anticipated.

None.

Irritation

Corrosivity

Sensitisation

Repeated dose toxicity

Carcinogenicity

Mutagenicity

Toxicity for reproduction

11.2 Other information

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Low toxicity to aquatic organisms.

Triiron Tetraoxide:

Fish: LC0 (Golden orfe)(48 hour) >1000mg/l

The product is biodegradable. Unlikely to persist.

The product has no potential for bioaccumulation.

Insoluble in water. Floats on water. The product is predicted to have low mobility in soil.

Not classified as PBT or vPvB.

None.

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and VPvB assessment

12.6 Other adverse effects

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents/container to: Licensed recycler. Refer to manufacturer for information on recovery/recycling. Do NOT landfill.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1 UN number

Not applicable.

14.2 UN Proper Shipping Name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing Group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

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

Not applicable.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the
substance or mixture 15.1.1 EU regulations

Authorizations and/or restrictions on use

15.1.2 National regulations

None known.

15.2 Chemical Safety Assessment

Not available.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:1-16.

LEGEND	LTEL Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and
Toxic	
vPvB	very Persistent and very
Bioaccumulative	

Disclaimers

Annex to the extended Safety Data Sheet (eSDS)

No information
available.