MATERION

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of the substance Iron oxide (FeO)

Identification number 1345-25-1 (CAS number)

Synonyms None.

Document numberI-MSDS0057Issue date04-May-2015

Version number 01

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

Identified usesNot available.Uses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

Supplier

Division

Company name Materion Advanced Chemicals Inc.

Address 407 N. 13th Street

1316 W. St. Paul Avenue Milwaukee, WI 53233

United States Milwaukee

Telephone 414.212.0257

e-mail advancedmaterials@materion.com

Contact person Noreen Atkinson

1.4. Emergency telephone

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification according to Regulation (EC) No 1272/2008 as amended

Hazard summary

Physical hazards Not classified for physical hazards. **Health hazards** Not classified for health hazards.

Environmental hazards Not classified for hazards to the environment.

Specific hazardsNot available.Main symptomsNot available.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Iron oxide
Hazard pictograms None.
Signal word None.

Hazard statements The substance does not meet the criteria for classification.

Precautionary statements

PreventionNot available.ResponseNot available.StorageNot available.DisposalNot available.

Supplemental label

information

None.

2.3. Other hazards None known.

Material name: Iron oxide (FeO)

SDS SLOVAKIA

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Iron oxide		100	1345-25-1 215-721-8	-	-	
Classification:	DSD: -					
	CLP: -					

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid measures

Inhalation Not available. Skin contact Not available. Eye contact Not available. **Ingestion** Not available. 4.2. Most important Not available.

symptoms and effects, both

acute and delayed

4.3. Indication of any Not available. immediate medical attention

and special treatment

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing

media

Not available.

Unsuitable extinguishing

media

Not available.

5.2. Special hazards arising

from the substance or

mixture

Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Not available.

For emergency responders

Not available.

6.2. Environmental

Not available.

precautions

6.3. Methods and material for

containment and cleaning up

Not available.

6.4. Reference to other

Not available.

sections

SECTION 7: Handling and storage

7.1. Precautions for safe

Not available.

handling

7.2. Conditions for safe storage, including any incompatibilities

Not available.

Material name: Iron oxide (FeO)

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Slovakia. OELs. Reg	ulation No. 300/2007 concerning protection of I	health in work with	chemical agents
Material	Туре	Value	Form

Iron oxide (CAS 1345-25-1) TWA 4 mg/m3 Inhalable fume. 1,5 mg/m3 Respirable fume.

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Not available.

Derived no-effect level

(DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

Not available.

controls

Individual protection measures, such as personal protective equipment

General information Not available. **Eye/face protection** Not available.

Skin protection

Hand protection
 Other
 Respiratory protection
 Thermal hazards
 Hygiene measures
 Environmental exposure
 Controls
 Not available.
 Not available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid.

Form Not available.
Colour Not available.
Odour Not applicable.
Odour threshold Not available.
PH Not available.

Melting point/freezing point 1377 °C (2510,6 °F)

Initial boiling point and

boiling range

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

(%)

Flammability limit -

Flammability limit - lower

Not available.

Not available.

upper (%)

Vapour pressure < 0,0000001 kPa at 25 °C

Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Material name: Iron oxide (FeO)

Solubility (other) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidizing properties

Not available.

Not available.

Not available.

Not available.

9.2. Other information

Molecular formula Fe-O

Molecular weight 71,85 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity Not available.
 10.2. Chemical stability Not available.
 10.3. Possibility of hazardous reactions
 10.4. Conditions to avoid Not available.
 10.5. Incompatible materials Not available.
 10.6. Hazardous Not available.

decomposition products

SECTION 11: Toxicological information

General informationNot available.Information on likely routes of exposureInhalationNot available.Skin contactNot available.Eye contactNot available.IngestionNot available.SymptomsNot available.

11.1. Information on toxicological effects

11.1. Information on toxicological effects					
roduct Species		Test results			
Iron oxide (CAS 1345-25-1)					
<u>Acute</u>					
Oral					
LD50	Mouse	> 15 g/kg			
	Rat	> 15 g/kg			
Skin corrosion/irritation Not available.					
Serious eye damage/eye irritation	Not available.				

Not available. Respiratory sensitisation Skin sensitisation Not available. Germ cell mutagenicity Not available. Carcinogenicity Not available. Reproductive toxicity Not available. Specific target organ toxicity Not available. - single exposure Specific target organ toxicity Not available. - repeated exposure Not available.

Aspiration hazard Not available.

Mixture versus substance Not available.

information

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity

Material name: Iron oxide (FeO)

Product Species Test results

Iron oxide (CAS 1345-25-1)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) > 10000 mg/l, 96 hours

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

Not available.

potential

Partition coefficient N

Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available. **12.4. Mobility in soil** Not available.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual wasteNot available.Contaminated packagingNot available.EU waste codeNot available.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use

Not regulated.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended

Not listed.

Directive 94/33/EC on the protection of young people at work, as amended

Not listed.

National regulations 15.2. Chemical safety Not available. Not available.

assessment

SECTION 16: Other information

List of abbreviationsNot available.ReferencesNot available.Information on evaluationNot available.

method leading to the classification of mixture

Full text of any statements or None.

R-phrases and H-statements under Sections 2 to 15

Revision information None.

Training information Not available.

Material name: Iron oxide (FeO)