

Safety data sheet

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

1.1. Product identifier.

Product name. PASTA COLORANTE AVANA SOLVENTE

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

Intended use. Dye to solvent-based adhesive masses paste

1.3. Details of the supplier of the safety data sheet.

Name. GI-EMME S.r.l.
 Full address. Via C. Battisti, 561
 District and Country. 45010 Ceregnano (RO)
 Italy
 tel. 0039 00425 476327
 fax. 0039 0425 479335

e-mail address of the competent person.
 responsible for the Safety Data Sheet.

Gi_emmesrl@alice.it

1.4. Emergency telephone number.

For urgent inquiries refer to. 0039 0425 476327 (Hours: xxxxxx)

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Reproductive toxicity, category 2	H361f	Suspected of damaging fertility.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

PASTA COLORANTE AVANA SOLVENTE

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H225	Highly flammable liquid and vapour.
H361f	Suspected of damaging fertility.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P273	Avoid release to the environment.
P280	Wear protective gloves / clothing and eye / face protection.
P301+310	F SWALLOWED: Immediately call a POISON CENTER or a doctor.
P304+P340	IF INHALED: remove person to fresh air and keep comfortable for breathing.

Contains:	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, rich in n-hexane N-HEXANE XYLENE (MIXTURE OF ISOMERS)
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2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients.**3.1. Substances.**

Information not relevant.

3.2. Mixtures.

Contains:

Identification.**TITANIUM DIOXIDE**

CAS. 13463-67-7

EC. 236-675-5

INDEX. -

Reg. no. 01-2119489379-17-0029

Classification 1272/2008 (CLP).

21 ≤ x < 41

Substance with a community workplace exposure limit

PASTA COLORANTE AVANA SOLVENTE

Yellow iron oxide

CAS. 51274-00-1

 $13 \leq x < 23$

Substance with a community workplace exposure limit

EC. 257-098-5

INDEX. -

Reg. no. 01-2119457554-33

Calcium carbonate

CAS. 471-34-1

 $10 \leq x < 20$

Substance with a community workplace exposure limit

EC. 207-439-9

INDEX. -

Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, rich in n-hexane

CAS. -

 $5 \leq x < 9,5$

Flam. Liq. 2 H225, Repr. 2 H361f, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411

EC. 925-292-5

INDEX. -

Reg. no. 01-2119474209-33

N-HEXANE

CAS. 110-54-3

 $5 \leq x < 9,5$

Flam. Liq. 2 H225, Repr. 2 H361f, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411

EC. 203-777-6

INDEX. 601-037-00-0

Reg. no. 01-2119480412-44

Diiron trioxide

CAS. -

 $3 \leq x < 6,5$

Substance with a community workplace exposure limit

EC. -

INDEX. -

Reg. no. 01-2119457614-35-0000

Carbon black

CAS. 1333-86-4

 $0,1 \leq x < 0,8$

Substance with a community workplace exposure limit

EC. 215-609-9

INDEX. -

XYLENE (MIXTURE OF ISOMERS)

CAS. 1330-20-7

 $0,01 \leq x < 0,05$

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

EC. 215-535-7

INDEX. 601-022-00-9

Reg. no. 01-2119488216-32-xxxx

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures.

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed.

Specific information on symptoms and effects caused by the product are unknown.
For symptoms and effects caused by the contained substances, see chap. 11.

4.3. Indication of any immediate medical attention and special treatment needed.

Follow doctor's orders.

SECTION 5. Firefighting measures.**5.1. Extinguishing media.**

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.**6.1. Personal precautions, protective equipment and emergency procedures.**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s).

See section 1.2

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2016

TITANIUM DIOXIDE

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
WEL	GBR	4			
TLV-ACGIH		10			
TLV - PEL (OSHA)		15			

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,127	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	1000	mg/kg
Normal value for marine water sediment	100	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	1667	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Effects on workers			Chronic local	Chronic systemic
	Acute local	Acute systemic	Chronic local	Acute local	Acute systemic	Chronic local		
Oral.			VND	700				
Inhalation.			10 mg/m3	VND			10 mg/m3	VND

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Yellow iron oxide**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	10				INHAL.
OEL	EU	3				RESP.

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.							10 mg/m3	10 mg/m3

Calcium carbonate**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		10				INHAL.
TLV-ACGIH		3				RESP.

N-HEXANE**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	72	20			
VLEP	ITA	72	20			
OEL	EU	72	20			
TLV-ACGIH		176	50			

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	4 mg/kg				
Inhalation.			VND	16 mg/m3			VND	75 mg/kg
Skin.			VND	5,3 mg/kg			VND	11 mg/kg

Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, rich in n-hexane**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	300	85			
TLV-ACGIH		300	85			

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	6 mg/kg				
Inhalation.			VND	20 mg/m3			VND	93 mg/m3
Skin.			VND	7 mg/kg			VND	13 mg/kg

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Diiron trioxide**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	10				INHAL.
OEL	EU	3				RESP.

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.							10 mg/m3	VND

Carbon black**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	3,5		7		
VLEP	ITA	3,5				INHAL.
OEL	EU	2				INHAL.
OEL	EU	0,5				RESP.
TLV-ACGIH		3				INHAL.

XYLENE (MIXTURE OF ISOMERS)**Threshold Limit Value.**

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	220	50	441	100	
VLEP	ITA	221	50	442	100	SKIN.
OEL	EU	221	50	442	100	SKIN.
TLV-ACGIH		434	100	651	150	

Predicted no-effect concentration - PNEC.

Normal value in marine water	0,327	mg/l
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.							VND	12,2 mg/kg bw/d
Inhalation.			VND	65,3 mg/m3			VND	221 mg/m3
Skin.			VND	1872 mg/kg/d			VND	180 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

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Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.**9.1. Information on basic physical and chemical properties.**

Appearance	liquid
Colour	light brown
Odour	characteristic
Odour threshold.	Not available.
pH.	Not applicable.
Melting point / freezing point.	Not available.
Initial boiling point.	69 °C at 1013 hPa
Boiling range.	Not available.
Flash point.	< 20 °C (closed cup)
Evaporation Rate	< 1.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	160 hPa..
Vapour density	Not available.
Relative density.	1,84 ± 0,05 Kg/l (Method: UNI EN ISO 2811-1).
Solubility	insoluble in water

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Solubility in solvent	soluble
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	4350 ± 700 cPs a 23°C (Method: UNI EN ISO 2555)..
Explosive properties	Not available
Oxidising properties	Not available.

9.2. Other information.

No other information.

SECTION 10. Stability and reactivity.**10.1. Reactivity.**

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials.

Oxidizing agents.

10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: > 6 mg/l/4h Rat.

LD50 (Oral) of the mixture: > 10000 mg/kg Rat

LD50 (Dermal) of the mixture: > 10000 mg/kg Rat

Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, rich in n-hexane

Chronic toxic action covers the peripheral and central nervous system; This is also affected by an acute effect. The disturbing action takes place on the respiratory tract, skin and conjunctiva.

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LD50 (Oral).> 25 Rat (male)
 LD50 (Dermal).> 5 mg/kg Rabbit
 LC50 (Inhalation).73860 ppm/4h Rat (Male)

TITANIUM DIOXIDE

LD50 (Oral).> 5000 mg/kg Rat Female (OECD Guideline 425)
 LC50 (Inhalation).> 6,82 mg/l/4h Ratto male
 NOEL - Oral (repeated toxicity): 24000 mg/kg bw/d rat - Exposure period: 29 consecutive days (Method: OECD 407)
 NOEC - Inhalation (repeated toxicity): 50 mg/m3 air - Rat
 NOEC (non-neoplastic 2 years Changes) - - Inhalation (repeated toxicity): 10 mg/m3 air - Rat

XYLENE (MIXTURE OF ISOMERS)

Has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

LD50 (Dermal).> 1700 mg/kg Rabbit
 LC50 (Inhalation).5000 ppm/4h Rat

Yellow iron oxide

LD50 (Oral).> 10000 mg/kg Rat
 LC50 (Inhalation).> 195 Rat

N-HEXANE

The chronic toxic effect involves the peripheral and central nervous system; this is also affected by an acute effect. Irritating effect is observed on the respiratory apparatus, conjunctivae and skin. May cause drowsiness and dizziness. Irritating to mouth, throat and stomach. If swallowed, it may be aspirated into the lungs and cause chemical pneumonitis.
 It may damage fertility

NOAEC (carcinogenicity) - Inhalation: 9016 ppm Rat (Method: Read across)
 NOAEL (for developmental toxicity) - Inhalation: 200 ppm Mouse
 NOAEL (Repeated dose toxicity) - Oral: 6,6 mol/kg bw Rat (male) .
 LD50 (Oral).24 mg/kg Rat (Method: OCSE 401)
 LD50 (Dermal).> 2000 mg/kg Rabbit (Method: OECD 402)
 LC50 (Inhalation).> 5 Rat (Method: OECD 403)

Calcium carbonate

LD50 (Oral).> 6450 mg/kg Rat

Carbon balck

LD50 (Oral).> 8000 mg/kg Rat (OECD TG 401)

SKIN CORROSION / IRRITATION.

Causes skin irritation.

SERIOUS EYE DAMAGE / IRRITATION.

Does not meet the classification criteria for this hazard class.

RESPIRATORY OR SKIN SENSITISATION.

Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY.

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY.

Does not meet the classification criteria for this hazard class.

REPRODUCTIVE TOXICITY.

May damage fertility or the unborn child.

STOT - SINGLE EXPOSURE.

May cause drowsiness or dizziness.

STOT - REPEATED EXPOSURE.

May cause damage to organs.

ASPIRATION HAZARD.

Toxic for inhalation.

SECTION 12. Ecological information.

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

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12.1. Toxicity.

Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, rich in n-hexane

LC50 - for Fish.	13,37 mg/l/96h <i>Oncorhynchus mykiss</i>
EC50 - for Crustacea.	23,35 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants.	9,9 mg/l/72h <i>Selenastrum capricornutum</i>

TITANIUM DIOXIDE

LC50 - for Fish.	> 1000 mg/l/96h <i>Pimephales promelas</i>
EC50 - for Crustacea.	> 1000 mg/l/72h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants.	62 mg/l/72h <i>Pseudokirchneriella subcapitata</i>

XYLENE (MIXTURE OF ISOMERS)

LC50 - for Fish.	4093 mg/l/96h
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Yellow iron oxide

LC50 - for Fish.	> 100000 mg/l/96h <i>Danio rerio</i>
EC50 - for Crustacea.	> 100 mg/l/48h <i>Daphnia magna</i>

N-HEXANE

LC50 - for Fish.	> 1000 <i>Oryzias latipes</i>
EC50 - for Crustacea.	21,85 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants.	9,28 mg/l/72h <i>Selenastrum capricornutum</i>

Carbon black

LC50 - for Fish.	> 1000 mg/l/96h <i>Brachydanio rerio</i> (OECD Guideline 203)
EC50 - for Crustacea.	> 5600 <i>Daphnia magna</i> (OECD Guideline 202)
EC50 - for Algae / Aquatic Plants.	> 10000 mg/l/72h <i>Scenedesmus subspicatus</i> (OECD Guideline 201)

Diiron trioxide

LC50 - for Fish.	> 50000 mg/l/96h <i>Danio rerio</i>
EC50 - for Crustacea.	> 100 mg/l/48h <i>Daphnia magna</i>

12.2. Persistence and degradability.

XYLENE (MIXTURE OF ISOMERS)

Solubility in water.	100 - 1000 mg/l
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N-HEXANE

Solubility in water.	0,1 - 100 mg/l
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Rapidly biodegradable.

12.3. Bioaccumulative potential.

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water.	3,12
BCF.	25,9

N-HEXANE

Partition coefficient: n-octanol/water. 4

BCF. 501,187

12.4. Mobility in soil.

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water. 2,73

N-HEXANE

Partition coefficient: soil/water. 3,34

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.**13.1. Waste treatment methods.**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.**14.1. UN number.**

ADR / RID, IMDG, IATA: 1263

14.2. UN proper shipping name.

ADR / RID: PAINT RELATED MATERIAL

IMDG: PAINT RELATED MATERIAL

IATA: PAINT RELATED MATERIAL

14.3. Transport hazard class(es).

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3



PASTA COLORANTE AVANA SOLVENTE

IATA: Class: 3 Label: 3

**14.4. Packing group.**

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards.

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for user.

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special Provision: 640D		
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 353
	Special Instructions:	A3, A72, A192	

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Seveso Category - Directive 2012/18/EC: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.Product.

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Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

PASTA COLORANTE AVANA SOLVENTESubstances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H361f	Suspected of damaging fertility.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)

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- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - ECHA website

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.