

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 07.08.2023 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Saffron v2
Product code : LXSFv2

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Ink Projects LLC
460 Greenway Industrial Drive, Suite A
Fort Mill, SC, 29708

1.4. Emergency telephone number

Emergency number : +1-813-248-0585. In case of emergency search for territorial toxicological emergency number or call 112

Country	Organization/Company	Address	Emergency number	Comment
Algeria		Algiers		
Australia		Westmead		
Austria		Vienna		
Belarus		Minsk		
Belgium		Brussels		Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)
Bulgaria		Sofia		The phone is active 24/7 and calls to it are free
Croatia		Zagreb		Information available 24/7 in Croatian and English
Cyprus		Nicosia		Operating hours 24 hours / 24 hours, 7 days a week
Czech Republic		Prague		and only in the event of a malfunction, phone 725 103 658 (otherwise there may not be a toxicologist on this phone!) Questions about ACUTE INTOXICATION of people and animals are dealt with exclusively on TIS direct telephone lines 24 hours a day
Denmark		Copenhagen		

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Country	Organization/Company	Address	Emergency number	Comment
Estonia		Tallinn		Calling the hotline is anonymous and at the cost of a local call.
Finland		Helsinki		Open 24 hours a day 0800 147 111 (free of charge) 09 471 977 (normal rate call)
France	Centre antipoison d'Angers	Angers Cedex 9		
Germany		Berlin		
Greece		Athens		
Hungary		Budapest		Emergency number 1: (0-24 hours, free of charge - only from Hungary) Emergency number 2: (0-24 hours, can be called for a normal fee - also from abroad)
Iceland		Reykjavik		Around the clock, every day
Ireland		Dublin		
Israel		Haifa		
Italy		Bergamo	+39 800 88 33 00	
Jordan		Amman		
Kazakhstan		Almaty		
Latvia		Riga		works 24 hours a day
Lithuania		Vilnius	+370 (85) 236 20 52	
Luxembourg		Brussels		Free telephone number with a 24/7 access. Experts answer all urgency questions on dangerous products in French, or German
Malta		Msida Msida		
Mexico		Mexico City		
Morocco		Rabat		
Netherlands	Nationaal Vergiftigingen Informatie Centrum (NVIC)	Huispostnummer Q03.2.315 Utrecht		Only for the purpose of informing medical personnel in cases of acute intoxications
Norway		Folkehelseinstituttet Postboks 222 Skøyen 0213 Oslo		Operating hours 24 hours / 24 hours, 7 days a week
Poland		Gdańsk	+48 512 069 737	
Portugal		Lisbon		
Romania	Spitalul Clinic de Urgenta pentru Copii „Grigore Alexandrescu”	Bucharest		
Russia		Moscow		

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Country	Organization/Company	Address	Emergency number	Comment
Saudi Arabia		Riyadh		
Serbia		Belgrade		
Slovakia		Bratislava	+421 911 166 066	
Slovenia		Ljubljana		
Spain		Las Rozas de Madrid	+34 91 411 26 76 (teléfono solo para médicos)	(Toxicological emergencies only). Information in Spanish (24/7)
Sweden		Solna		
Switzerland		Zürich	+41 44 251 51 51	(from abroad: +41 44 251 51 51) non urgent inquiry: +41 44 251 66 66
Tunisia		Tunis		
Turkey	Ulusal Zehir Danışma Merkezi (UZEM) Halk Sağlığı Genel Müdürlüğü, T.C. Sağlık Bakanlığı	Sağlık Mahallesi Adnan Saygun Cad. No:55 Sıhhiye 06430 Ankara		Information is provided to public and medical personnel on poisoning incidents via 114.
United Arab Emirates		Abu Dhabi		
United Kingdom		Belfast		Only for healthcare professionals

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

3.2. Mixtures

Name	Product identifier	%	GHS US classification
White 6 (CI:77891)	CAS-No.: 13463-67-7	15 – 25	Not classified
Mineral Oil	CAS-No.: 8042-47-5	5 – 10	Not classified
TEA	CAS-No.: 102-71-6	1 – 5	Not classified
Glycerin	CAS-No.: 56-81-5	1 – 5	Not classified
Ethoxylated Fatty Alcohols	CAS-No.: 9004-98-2	1 – 5	Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Saffron v2	
No additional information available	
White 6 (CI:77891) (13463-67-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Titanium dioxide
ACGIH OEL TWA	10 mg/m ³
Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2021
USA - OSHA - Occupational Exposure Limits	
Local name	Titanium dioxide (Total dust)
OSHA PEL TWA [1]	15 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Mineral Oil (8042-47-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 mg/m ³ (Inhalable fraction)
TEA (102-71-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Triethanolamine
ACGIH OEL TWA	5 mg/m ³
Remark (ACGIH)	TLV® Basis: Eye & skin irr
Regulatory reference	ACGIH 2021

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Glycerin (56-81-5)

USA - OSHA - Occupational Exposure Limits

Local name	Glycerin (mist)
OSHA PEL TWA [1]	15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Ethoxylated Fatty Alcohols (9004-98-2)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Mixture contains one or more component(s) which have the following colour(s): Pure substance: white Unpurified: coloured Colourless to white Colourless to light yellow On exposure to air: brown Colourless Yellow-brown White Green
Odor	: Characteristic odour
Odor threshold	: No data available
pH	: 7,5 – 8,5
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

White 6 (CI:77891) (13463-67-7)

Boiling point	3000 °C (1013 hPa)
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Vapor pressure	Not applicable (solid)
Particle size	94 – 99 µm (D10, DIN EN 481)

Mineral Oil (8042-47-5)

Boiling point	218 – 800 °C (1013 hPa, ASTM D1160: Distillation of Petroleum Products at Reduced Pressure)
Flash point	> 112 °C (Closed cup, 1013 hPa, EN ISO 2719: Pensky-Martens)
Auto-ignition temperature	325 – 355 °C (1013 hPa, ASTM E659-78: Self-ignition temperature, T2)
Vapor pressure	< 0,1 hPa (20 °C, OECD 104: Vapour Pressure)
Particle size	Not applicable (liquid)

TEA (102-71-6)

Boiling point	336 °C (1013 hPa)
Flash point	179 °C (Closed cup, 1013 hPa)
Auto-ignition temperature	324 °C (1013 hPa, T2)
Vapor pressure	0,019 hPa (20 °C)
Particle size	Not applicable (liquid)

Glycerin (56-81-5)

Boiling point	290 °C (1013 hPa)
Flash point	199 °C (Closed cup, 1013 hPa, ISO 2719: Flash point (Pensky-Martens))
Auto-ignition temperature	370 °C (T2)
Vapor pressure	< 0,01 hPa (20 °C)
Particle size	Not applicable (liquid)

Ethoxylated Fatty Alcohols (9004-98-2)

Boiling point	> 100 °C
---------------	----------

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Ethoxylated Fatty Alcohols (9004-98-2)

Flash point	> 149 °C
Vapor pressure	< 1 Pa Temp.: 20 °C

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

TEA

ATE US (oral)	6400 mg/kg body weight
---------------	------------------------

Glycerin

LD50 dermal	56750 mg/kg (4 day(s), Experimental value, Dermal, 14 day(s))
ATE US (oral)	27200 mg/kg body weight
ATE US (dermal)	56750 mg/kg body weight

Ethoxylated Fatty Alcohols

ATE US (dermal)	2000 mg/kg body weight
-----------------	------------------------

Skin corrosion/irritation	: Not classified pH: 7,5 – 8,5
Serious eye damage/irritation	: Not classified pH: 7,5 – 8,5

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

White 6 (CI:77891) (13463-67-7)

IARC group	2B - Possibly carcinogenic to humans
------------	--------------------------------------

TEA (102-71-6)

IARC group	3 - Not classifiable
------------	----------------------

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

White 6 (CI:77891) (13463-67-7)

Viscosity, kinematic	Not applicable (solid)
----------------------	------------------------

Mineral Oil (8042-47-5)

Viscosity, kinematic	> 3 mm²/s (40 °C, ISO 3104: Determination of kinematic viscosity and calculation of dynamic viscosity)
----------------------	--

TEA (102-71-6)

Viscosity, kinematic	830,2 mm²/s (20 °C, Equivalent or similar to OECD 114)
----------------------	--

Glycerin (56-81-5)

Viscosity, kinematic	No data available in the literature
----------------------	-------------------------------------

Ethoxylated Fatty Alcohols (9004-98-2)

Viscosity, kinematic	21,053 mm²/s
----------------------	--------------

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

White 6 (CI:77891) (13463-67-7)

Not rapidly degradable

Persistence and degradability	Biodegradability: not applicable.
-------------------------------	-----------------------------------

Chemical oxygen demand (COD)	Not applicable (inorganic)
------------------------------	----------------------------

ThOD	Not applicable (inorganic)
------	----------------------------

Mineral Oil (8042-47-5)

Not rapidly degradable

Persistence and degradability	Not readily biodegradable in water.
-------------------------------	-------------------------------------

TEA (102-71-6)

Not rapidly degradable

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

TEA (102-71-6)	
Persistence and degradability	Biodegradable in the soil. No inhibition of nitrification. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0,02 g O ₂ /g substance
Chemical oxygen demand (COD)	1,5 g O ₂ /g substance
ThOD	2,04 g O ₂ /g substance
BOD (% of ThOD)	0,02

Glycerin (56-81-5)	
Not rapidly degradable	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0,87 g O ₂ /g substance
Chemical oxygen demand (COD)	1,16 g O ₂ /g substance
ThOD	1,217 g O ₂ /g substance

Ethoxylated Fatty Alcohols (9004-98-2)	
Not rapidly degradable	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2,33 g O ₂ /g substance

12.3. Bioaccumulative potential

White 6 (CI:77891) (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.

Mineral Oil (8042-47-5)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

TEA (102-71-6)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

Glycerin (56-81-5)	
Bioaccumulative potential	Not bioaccumulative.

Ethoxylated Fatty Alcohols (9004-98-2)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

White 6 (CI:77891) (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.

Mineral Oil (8042-47-5)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,64 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

TEA (102-71-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1,06 – 1,27 (log Koc, SRC PCKOCWIN v1.66, Calculated value)
Ecology - soil	Highly mobile in soil.
Glycerin (56-81-5)	
Surface tension	63,4 mN/m (20 °C, 1000 g/l)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

White 6 (CI:77891) (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

Mineral Oil (8042-47-5)

Listed on the Canadian DSL (Domestic Substances List)

TEA (102-71-6)

Listed on the Canadian DSL (Domestic Substances List)

Glycerin (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

Ethoxylated Fatty Alcohols (9004-98-2)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

White 6 (CI:77891) (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Mineral Oil (8042-47-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

TEA (102-71-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Glycerin (56-81-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Saffron v2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Ethoxylated Fatty Alcohols (9004-98-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases

H312	Harmful in contact with skin
H318	Causes serious eye damage
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.