Safety Data Sheet
REACTINT® Orange X96

Version 1.0 Revision Date: 01/20/2023

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : REACTINT® Orange X96

Recommended use of the chemical and restrictions on use

Recommended use : Colouring agent

Supplier or Repackaging Details

Company : Univar Solutions Brasil Ltda
Address Rua Arinos, 15
Parque Industrial Anhanguera – CEP: 06276-032
Brazil

Manufactured By : Milliken & Company

Emergency telephone number : (19) 3874-7000 e Ambipar 0800 117 2020

Additional Information: : Phone: (19) 3874-7000
Fax: (19) 3874-7004
Email: ehsbrasil@univarsolutions.com

SECTION 2. HAZARDS IDENTIFICATION

Classification according to GHS BR (ABNT NBR 14725-2)

Long-term (chronic) aquatic hazard : Category 3

GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 69.9999 %
The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 69.9999 %
The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 69.9999 %

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

CAS-No.	Chemical name	Classification	Concentration (% w/w)
111-46-6	Diethylene glycol	Acute toxicity (Oral), Category 4	>= 1 -< 10
80-08-0	4,4'-Diaminodiphenyl Sulphone	Acute toxicity (Oral), Category 4 Specific target organ toxicity - single exposure (Blood), Category 2 Specific target organ toxicity - repeated exposure (Blood, spleen, Liver), Category 2 Long-term (chronic) aquatic hazard, Category 2	>= 1 -< 10
Trade Secret	Proprietary Component	Acute toxicity (Oral), Category 5 Acute toxicity (Inhalation), Category 5 Acute toxicity (Dermal), Category 5 Skin irritation, Category 3 Eye irritation, Category 2A Short-term (acute) aquatic hazard, Category 3 Long-term (chronic) aquatic hazard, Category 3	>= 50 -<= 70

Any concentration shown as a range is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

If inhaled : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting without medical advice.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.
Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed	:	None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx) sulfur oxides
Specific extinguishing methods	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated

place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection	:	No personal respiratory protective equipment normally required. In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	:	Eye wash bottle with pure water Tightly fitting safety goggles
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	dark orange
Odour	:	sweet
Odour Threshold	:	No data available
pH	:	No data available
Freezing Point	:	No data available
Boiling Point (Boiling point/boiling range)	:	> 100 °C (> 212 °F)
Flash point	:	270 °C (518 °F) Method: Cleveland open cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	< 760 mmHg @ 25 °C (77 °F)
Relative vapour density	:	No data available
Relative density	:	1.1 @ 20 - 25 °C (68 - 77 °F)

Reference substance: (water = 1)

Density	:	No data available
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Thermal decomposition	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	:	None known.
Hazardous decomposition products	:	No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Components:

111-46-6:

Acute oral toxicity : LD50 (Human): Calculated 1,120 mg/kg
Assessment: The component/mixture is moderately toxic after single ingestion.

80-08-0:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Trade Secret:

Acute oral toxicity : Assessment: The component/mixture is minimally toxic after single ingestion.
Remarks: No data available

Acute inhalation toxicity	:	Assessment: The component/mixture is minimally toxic after short term inhalation. Remarks: No data available
Acute dermal toxicity	:	Assessment: The component/mixture is minimally toxic after single contact with skin. Remarks: No data available

Skin corrosion/irritation

Components:

Trade Secret:
Species: Rabbit
Result: Mild skin irritation

Serious eye damage/eye irritation

Components:

Trade Secret:
Species: Rabbit
Result: Irritating to eyes.

Respiratory or skin sensitisation

Components:

Trade Secret:
Test Type: lymph node assay
Species: Mouse
Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

Trade Secret:

Germ cell mutagenicity - Assessment	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Components:

Trade Secret:

Carcinogenicity - Assessment	:	No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

Trade Secret:

Teratogenicity - Assessment	:	No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

80-08-0:
Target Organs: Blood
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Components:

80-08-0:
Target Organs: Blood, spleen, Liver
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Further information
The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 69.9999 %

Components:

80-08-0:

Toxicity to fish	:	LC50: > 100 mg/l
Toxicity to daphnia and other	:	NOEC: 0.22 mg/l

aquatic invertebrates
(Chronic toxicity)

Trade Secret:

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 130 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): 27 mg/l Exposure time: 3 d

Persistence and degradability

Components:

111-46-6:

Biodegradability	:	aerobic Inoculum: Activated sludge, domestic, adaption not specified Biodegradation: 90 - 100 % Exposure time: 28 d Remarks: Readily biodegradable

80-08-0:

Biodegradability	:	aerobic Inoculum: Activated sludge, domestic, adaption not specified Result: Not biodegradable Biodegradation: > 0 - < 1 % Exposure time: 28 d

Trade Secret:

Biodegradability	:	Exposure time: 28 d Remarks: Readily biodegradable

Bioaccumulative potential

Components:

111-46-6:

Bioaccumulation	:	Bioconcentration factor (BCF): 100 Remarks: The substance has low potential for bioaccumulation.

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	:	Comply with the applicable regulations for the disposal of solid waste. Disposal should be carried out in accordance with official legislation.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

National Regulations

ANTT
Not regulated as a dangerous good

Special precautions for user
Not applicable

SECTION 15. INFORMATION ABOUT REGULATIONS

Specific regulations for the chemical product:	:	Brazilian local regulations: ABNT NBR 14725 Standard Federal Decree No. 2,657, of July 3, 1998 – Promulgates ILO Convention No. 170, on Safety in the Use of Chemicals at Work, signed in Geneva, on June 25, 1990. Ordinance No. 229, of May 24, 2011 - Amends Regulatory Standard No. 26 Resolution No. 5232, of December 14, 2016 - Approves the Supplementary Instructions to the Land Regulations for the Transport of Dangerous Goods, and makes other provisions.

SECTION16. OTHER INFORMATION

Further information

Revision Date	:	01/20/2023
Legacy SDS:	:	100000029998

Material number:
16195569, 16196269, 16195380, 16124030, 16124029, 16124028

Other information : This MSDS was prepared based on current knowledge on the proper handling of the product and under normal conditions of use, according to the application specified on the packaging. Any other form of use of the product that involves its combination with other materials, in addition to forms of use other than those indicated, are the responsibility of the user. It is cautioned that the handling of any quantum substance requires prior knowledge of its dangers by the user. In the workplace, it is up to the company that uses the product to promote the training of its employees regarding the possible risks arising from exposure to the chemical product.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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