

LITHO SUPPLIES (UK) LTD UNIT 1-2 ASHBOURNE COURT ILKESTON, NT DE7 8EF United Kingdom

October 05, 2016

Save Money! Be Green! Receive MSDS electronically! Email your request to regulatory.emsds@sunchemical.com

Ayez une pensée pour l'environnement ! Gagnez du temps et de l'argent ! Recevez vos FDS par voie électronique! Envoyez vos demandes à regulatory.emsds@sunchemical.com

Ahorra dinero! Cuida el medio ambiente! Recibe las Hojas de Seguridad por correo electrónico! Envoyez vos demandes a regulatory.emsds@sunchemical.com

Sparen Sie Geld! Handeln Sie umweltbewußt! Fordern Sie Sicherheitsdatenblätter in elektronischer Form an. Richten Sie Ihre E-Mail an: regulatory.emsds@sunchemical.com

Risparmia soldi! Sii ecologico! Ricevi MSDS in formato elettronico! Invia la tua richiesta all'indirizzo regulatory.emsds@sunchemical.com

Poupe dinheiro! Seja verde! Receba as F.D.S. electronicamente! Envie o seu pedido para o email regulatory.emsds@sunchemical.com



SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - United Kingdom (UK)

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

1.1 Product identifier	
Product name	: EXA25:EXACT PSO PROCESS CYAN:CF01
Product code	: EXA25
Trade name	: SunLit® Exact PSO EXA25 PROCESS CYAN
Date of issue/ Date of revision	: 2 September 2016
Version	: 15.03

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

Identified uses		
Colorant; Printing ink related material; Printing ink.		
Uses advised against	Reason	
Not applicable.		

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Distributor	: SUNCHEMICAL AN DEN HIRTENÄCKERN 15, 63791 KARLSTEIN AM MAIN GERMANY +49 (0) 6188 953-0
	SUN CHEMICAL 3 HIGH VIEW ROAD SOUTH NORMANTON DERBYSHIRE DE55 2DT UNITED KINGDOM (44) 1773 813704
e-mail address of person responsible for this SDS	: regulatory.affairs@sunchemical.com
1.4 Emergency telephone nu <u>Supplier</u>	mber

Telephone number: (44) 870-8200418 (Chemtrec - 24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

See Section 11 for more detailed information on health effects and symptoms.

Date of issue

: 2 September, 2016

SECTION 2: Hazards identification

2.2 Label elements		
Signal word	No signal word.	
Hazard statements	No known significant effects or critical hazards.	
Precautionary statements		
Prevention	Not applicable.	
Response	Not applicable.	
Storage	Not applicable.	
Disposal	Not applicable.	
Supplemental label elements	Contains 2-tert-butylhydroquinone. May produce an allergic reaction. Safety dat sheet available on request.	a
2.3 Other hazards		
Other hazards which do not result in classification	None known.	

SECTION 3: Composition/information on ingredients

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
2-tert-butylhydroquinone	REACH #: 01-2119947988-11 EC: 217-752-2 CAS: 1948-33-0	0.25 < 1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1)	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	 In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with room temperature water for at least 15 minutes, keeping eyelids open. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 2-tert-butylhydroquinone. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to medical doctor	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising t	from the substance or mixture
Hazards from the substance or mixture	: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal
decomposition products: Decomposition products may include the following materials: carbon monoxide,
carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Date of issue	: 2 September, 2016	Page: 3/10
---------------	---------------------	------------

SECTION 5: Firefighting measures

Special protective actions	: Cool closed containers exposed to fire with water. Do not release runoff from fire to
for fire-fighters	drains or watercourses.
Special protective	: Appropriate breathing apparatus may be required.

equipment for fire-fighters

ig app ıy Ч vppiop

SECTION 6: Accidental release measures

L	_	
6.1 Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	:	Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and materials for containment and cleaning up	:	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

Date of issue	: 2 September, 2016	Page: 4/1
	Materials such as cleaning rags, paper wipes and protective of contaminated with the product may spontaneously self-ignite s avoid the risks of fires, all contaminated materials should be s containers or in metal containers with tight-fitting, self-closing materials should be removed from the workplace at the end of and be stored outside.	some hours later. To tored in purpose-built lids. Contaminated
storage, including any incompatibilities	Store in accordance with local regulations. Notes on joint storage Keep away from: oxidizing agents, strong alkalis, strong acids Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventila from heat and direct sunlight. Keep container tightly closed. No smoking. Prevent unauthorized access. Containers that has be carefully resealed and kept upright to prevent leakage.	ated area. Keep away
7.2 Conditions for safe	: Store between the following temperatures: 5 - 35 $^{\circ}$ C	
7.1 Precautions for safe handling	 Keep container tightly closed. Avoid contact with skin and eyes. Avoid inhalation of vapor, sp Eating, drinking and smoking should be prohibited in areas wh handled, stored and processed. Put on appropriate personal protective equipment (see Section Never use pressure to empty. Container is not a pressure ves Always keep in containers made from the same material as th Comply with the health and safety at work laws. 	nere this material is n 8). sel.

SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

procedures

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ ingredient name	Туре	Exposure	Value	Population	Effects
No DELs available.					

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
No PECs available.				

8.2 Exposure controls

Appropriate engineering controls	: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.
Individual protection meas	ures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
Eye/face protection	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
Gloves	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Date of issue : 2 September, 2016	Page: 5/10
-----------------------------------	------------

SECTION 8: Exposure controls/personal protection

Body protection	 Personnel should wear antistatic clothing made of natural fibers or of high- temperature-resistant synthetic fibers.
Respiratory protection	: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

[Paste] eteristic. plicable. plicable. C plicable. ted
plicable. plicable. C plicable.
plicable. plicable. C plicable.
plicable. C plicable.
plicable.
plicable.
ted
known value: 288°C (550°F)
t known value: <1 (Soybean oil) Weighted average: 0.9compared with cetate
ted
plicable.
olicable.
plicable.
plicable. ted

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity			
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).		
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.		

SECTION 10: Stability and reactivity

10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

There are no data available on the mixture itself. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 2-tert-butylhydroquinone. May produce an allergic reaction.

11.1 Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
2-tert-butylhydroquinone	LD50 Oral	Rat	700 mg/kg	-

Irritation/Corrosion

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Sensitization

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Mutagenicity

Not applicable.

Carcinogenicity

Not applicable.

Reproductive toxicity

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Teratogenicity

Not applicable.

Specific target organ toxicity (single exposure)

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Specific target organ toxicity (repeated exposure)

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aspiration hazard

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

SECTION 12: Ecological information

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil Soil/water partition coefficient (Koc)	: Not available.		
Mobility	: Not available.		
12.5 Results of PBT and vPvB assessment			

PBT	: Not applicable.
vPvB	: Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information, contact your local waste authority.

13.1 Waste treatment methods

<u>Product</u>		
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.	
Packaging		
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	
European Waste Catalogue (EWC):	: 08 03 13 waste ink other than those mentioned in 08 03 12	
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.	

Date of issue

SECTION 14: Transport information

ADR/RID	ADN	IMDG	ΙΑΤΑ
Not regulated.	Not regulated.	Not regulated.	Not regulated.
Not regulated.	Not regulated.	Not regulated.	Not regulated.
Not regulated.	Not regulated.	Not regulated.	Not regulated.
-	-	-	-
No.	No.	No.	No.
-	-	-	-
	Not regulated. Not regulated. Not regulated. Not regulated	Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. Not regulated. - -	Not regulated. Not regulated. Not regulated. - - -

14.6 Special
precautions for
userTransport within user's premises: always transport in closed containers that are upright and
secure. Ensure that persons transporting the product know what to do in the event of an
accident or spillage.

14.7 Transport in bulk: Not available.according to Annex II ofMARPOL and the IBC Code

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

15.2 Chemical Safety Assessment	 This product contains substances for which Chemical Safety Assessments are st to be received. 	ill
	•	
<u>Other EU regulations</u> Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations ap to the use of this product at work.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.	

SECTION 15: Regulatory information

SECTION 16: Other information

Indicates information that has changed from previously issued version.

: 8

RRN = REACH Registration Number	Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
---------------------------------	----------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification	
Not classified.			
Full text of abbreviated H statements	: H302 Harmful if swallo H312 Harmful in conta H315 Causes skin irrit H317 May cause an a H319 Causes serious H400 Very toxic to aqu	act with skin. ation. Ilergic skin reaction. eye irritation.	
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 Acute Tox. 4, H312 Aquatic Acute 1, H400 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1	
Full text of abbreviated R phrases	R36/38- Irritating to eyes R43- May cause sensitiza	R22- Harmful if swallowed. R36/38- Irritating to eyes and skin. R43- May cause sensitization by skin contact. R50- Very toxic to aquatic organisms.	
Full text of classifications [DSD/DPD]	: Xn - Harmful Xi - Irritant N - Dangerous for the environment		
Date of printing	: 5 October 2016	: 5 October 2016	
Date of previous issue	: 11 August 2016		
Notice to reader			

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

Annex