STRATOJET
HIGH PERFORMANCE I LARGE FORMAT DIGITAL TECHNOLOGY
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Safety data sheet

According to regulations CLP No. 1272/2008 and REACH No. 1907/200

E-Series SOLA PROMOTER SPS5099P

Section 1: Product Identification

1.1 Product identifier

Product name E-Series SOLA PROMOTER SPS5099P

CAS number Not applicable

Registration No. Not applicable

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

Identified uses UV digital ink

Uses advised against At present no contraindicated use has been identified

1.3 Details of the supplier of the safety data sheet

Supplier

STRATOJETUSA
12110 E Slauson Ave #9
Santa Fe Springs, CA 90670,
USA

Tel.:(+1)562-698-1439
Fax:(+1)562-698-6929
Email: info@stratojetusa.com

1.4 Emergency telephone numbers

European emergency phone number : 112

United-Kingdom
National Chemical Emergency Centre Tel: 01865 407 333

Ireland
National Poisons Information Centre (NPIC)
01 809 2566 (24/7 for professionals)
01 809 2166 (9am – 5pm, Mo-Fr for public)
United States of America (U.S.A.) emergency phone number: 112

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification (EC No.1272/2008)

Flam. Liq. 2	H225
Eye Irrit. 2	H319
Skin Sens. 1B	H317

The full text for all hazard classes and categories and H hazard statements is displayed in Section 16.

2.2. Label elements

Labeling according to Regulation (EC) No.1272/2008

Hazard pictograms

Signal word

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash ... thoroughly after handling.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water/…
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see ... on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Handle with care, not all the toxicological properties of this product are known.
UV inks: Exposure to direct sunlight or storage temperatures above 60°C may cause an uncontrolled exothermic polymerization.

Section 3: Composition/information on ingredients

3.1 Substances

	Classification (EC No. 1272/2008)	%
Not applicable		

3.2. Mixtures

Hazardous ingredients		Classification (EC No. 1272/2008)	%
CAS : 64-17-5 **CE :** 200-578-6 **INDEX :** 603-002-00-5 **REACH:** 01-2119457610-43-xxxx	Ethanol; ethyl alcohol	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319	75-85
CAS : 78-93-3 **CE :** 201-159-0 **INDEX :** 606-002-00-3 **REACH:** 01-2119457290-43-xxxx	Butanone; ethyl methyl ketone	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 (narcotic) - H336	4-8
CAS : 2530-85-0 **CE :** 219-785-8 **INDEX :** 607-134-00-4 **REACH:** 01-2119513216-50	3-Methacryloxypropyltrimethoxysilane	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	3-5

The full text for H hazard statements is displayed in Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

First aid measures after inhalation

-Remove the exposed person to fresh air.
-If breathing difficulties persist, seek medical advice.

First aid measures after skin contact

-If UV inks are splashed, remove contaminated clothing, avoid exposure to direct sunlight or any source of UV radiation.
-Rinse with lots of water for at least 10 minutes, do not use solvents or diluents, use a skin cleanser (soap etc.).
-Seek medical advice if necessary.

First aid measures after eye contact

- Avoid exposure to direct sunlight or any source of UV radiation.
Remove contact lenses if present and easy to do, rinse with plenty of water for at least 10 minutes, holding the eyelids apart.
-Seek medical advice if necessary.

First aid measures after ingestion

-DO NOT INDUCE VOMITING.
-In the event of spontaneous vomiting, clear the airway and seek immediate medical attention.

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

The severity of the symptoms described will vary depending on the intensity and duration of exposure.

4.3 Indication of any immediate medical attention and special treatment needed

No specific first aid measures.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable	Powders, foams and water spray
Unsuitable	Pressurized water

5.2. Specific hazards arising from the substance or mixture

-Some products may polymerize at high temperatures
-The polymerization of this product is sufficiently exothermic to cause thermal decomposition or explosion of containers
-Thermal decomposition may release irritating fumes, gases or flames, which can, in turn, cause health problems
In case of fire, a dense, black, acrid smoke is produced

5.3. Advice for firefighters

-Firefighters are to be equipped with self-contained breathing apparatus.
-Spray any unopened drums exposed to fire shouldwith water to keep them cool.
-Keep run-off water out of sewers and waterways. In the event of spillage, notify the competent authorities.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition, do not breath vapour (see sections 7 and 8), avoid contact with skin and eyes, remove contaminated clothing immediately.

6.2. Environmental precautions

Do not discharge into drains or water courses; comply with current legislation.

6.3. Methods and materials for containment and cleaning up

Use absorbent materials (e.g. sand, diatomaceous earth), clean with a detergent, avoid the use of solvents, dispose of waste in accordance with current legislation.

6.4. Reference to other sections

Refer to Section 8 for personal protective equipment and Section 13 for disposal considerations.

Section 7: Handling and storage

7.1. Precautions for safe handling

-Before handling, refer to Sections 3, 8 and 11
-Anyone with a history of skin sensitization must handle the product with special care
-Avoid breathing vapour (see sections 7 and 8)
-Avoid contact with skin and eyes
-Follow relevant national occupational hygiene regulations
-Do not drink, eat or smoke in work areas
-Wash hands after use

7.2. Conditions for safe storage, including any incompatibilities

-Store in original containers at room temperature
-Opened containers must be tightly closed and kept upright to prevent leaks
-Keep away from sources of ignition, protect from direct sunlight
-Keep away from oxidizing agents, acids and bases

7.3. Specific end use(s)

Refer to Section 1.2.

Section 8: Exposure controls / personal protection

8.1. Control parameters

Ethanol; ethyl alcohol

DNEL (derived no effect limits) 343 mg/kg (Workers; Dermal; Long term-Chronical effects) - 950 mg/m3 (Workers; Inhalation; CE) - 206 mg/kg (Consumers; Dermal; LT-CE) - 114 mg/m3 (Consumers; Inhalation; CE) - 87 mg/kg (Consumers; Ingestion; LT-CE)

OEL (occupational exposure limits) 1000 ppm; 1900 mg/m3 **ELV (emission limit value)**

PNEC (predicted no effect concentration) 0.96 mg/l (fresh water) - 0.79 mg/l (sea water) - 3.6 mg/kg (fresh water sediment) - 2.9 mg/kg (marine sediment) - 0.63 mg/kg (soil)

Butanone; ethyl methyl ketone

DNEL 1161 mg/kg (Workers; Dermal) - 600 mg/m3 (Workers; Inhalation) - 412 mg/kg (Consumers; Dermal) - 106 mg/m3 (Consumers; Inhalation) - 31 mg/kg (Consumers; Ingestion)

OEL 200 ppm; 600 mg/m3 **ELV**

PNEC 55.8 mg/l (fresh water) - 55.8 mg/l (sea water) - 284.7 mg/kg (sediment) - 22.5 mg/kg (soil) -

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3-Methacryloxypropyltrimethoxysilane

DNEL Undetermined

OEL **ELV**

PNEC Undetermined

DNEL

OEL **ELV**

PNEC

DNEL

OEL **ELV**

PNEC

DNEL

OEL **ELV**

PNEC

DNEL

OEL **ELV**

PNEC

8.2. Exposure controls

8.2.1. Appropriate technical controls
Refer to Section 7.1.

8.2.2. Personal protective equipment

Eye and face protection

The use of safety goggles is recommended to protect against splashing.

Hand protection

It is possible to use special protective creams; these should not be applied after contamination.
Do not use gloves made of natural rubber or PVC. It is possible to use disposable single-use gloves.

Skin protection

Wear suitable clothing, do not wear contaminated clothing.

Respiratory protection

In the case of frequent use or heavy exposure, respiratory protection may be necessary. Wear an appropriate mask.
Vapor extraction or effective ventilation should be provided at workstations.

8.2.3. Environmental exposure controls

Do not discharge into drains or water courses.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Undetermined
Odour	Undetermined
Odour threshold	Undetermined
pH	Undetermined
Melting / freezing (°C) point	Undetermined
Initial boiling point and boiling range (° C)	78
Flash point (° C)	21
Evaporation rate	Undetermined
Flammability	Undetermined
Upper / lower flammability limits	Undetermined
Vapour pressure	Undetermined
Vapour density	Undetermined
Relative density	Undetermined
Solubility	Undetermined
n-octanol / water partition coefficient	Undetermined
Auto ignition temperature	Undetermined
Thermal decomposition temperature	Undetermined
Viscosity	Undetermined

9.2. Other information

No additional information available

Section 10: Stability and reactivity

10.1. Reactivity

Reacts with oxidizing agents, acids, bases.
Solar radiation and heat can cause hazardous polymerization.

10.2. Chemical stability

The product is stable under the handling and storage conditions recommended in Section 7.

10.3. Possibility of hazardous reactions

UV-curable formulations contain chemicals that can become unstable (exothermic reactions) under the following conditions:

10.4. Conditions to avoid

Prolonged exposure to temperatures above 40 °C
Prolonged exposure to light and UV radiation

10.5. Incompatible materials

Oxidizing agents, acids, bases.

10.6. Hazardous decomposition products

Thermal decomposition may release irritating fumes, which can, in turn, cause health problems

Section 11: Toxicological Information

11.1. Information on toxicological effects

No experimental data is available for this product. This information was obtained from tests carried out by our suppliers. This product has been analyzed according to EC Regulation 1272/2008 and classified according to the toxicological hazards of its ingredients.

Acute toxicity

Ethanol; ethyl alcohol(64-17-5)
LD50 Oral rat > 2000 mg/kg - LC50 inhalation rat > 20.00 mg/l-4h - LD50 dermique lapin > 2000 mg/kg

Butanone; ethyl methyl ketone(78-93-3)
LD50 Oral rat > 2193 mg/kg - LC50 inhalation rat = 34.00 mg/l-4h - LD50 dermique lapin > 5000 mg/kg

3-Methacryloxypropyltrimethoxysilane(2530-85-0)
LD50 Oral rat = 23617 mg/kg

Skin corrosion / irritation

Ethanol; ethyl alcohol (64-17-5) : Negative (rabbit) OECD 404

Serious eye damage / eye irritation

Ethanol; ethyl alcohol (64-17-5) : Irritant (rabbit) OECD 405

Respiratory or skin sensitization

No specific data available

Germ cell mutagenicity

Given available data, classification requirements have not been met.

Carcinogenicity

Given available data, classification requirements have not been met.

Reproductive toxicity

No specific data available

Specific target organ toxicity (single exposure)

No specific data available

Specific target organ toxicity (repeated exposure)

No specific data available

Aspiration hazard

No specific data available

Symptoms/injuries after inhalation

Prolonged contact may cause irritation to respiratory system.

Symptoms/injuries after ingestion
Ingestion may cause nausea, weakness and effects on the central nervous system.

Symptoms/injuries after skin contact
The acrylic components of UV-curable inks have irritant properties. Prolonged contact with skin or mucous membranes may cause allergic reactions (rash, dermatitis, blistering)

Symptoms/injuries after eye contact
Contact with the eyes may cause irritation.

Section 12: Ecological information

No experimental data is available for this product. The information presented below relates to the individual ingredients for this product.
This information was obtained from tests carried out by our suppliers.

12.1. Toxicity

Ethanol; ethyl alcohol (64-17-5) :
CL50/LC50 : 15300.00 mg/l - 96h Pimephales promelas - CE50/EC50 : 5012.00 mg/l-48h Ceriodaphnia Dubia

Butanone; ethyl methyl ketone (78-93-3) :
CL50/LC50 : 2990.00 mg/l - 96h Pimephales promelas - CE50/EC50 : 308.00 mg/l-48h Daphni magna

3-Methacryloxypropyltrimethoxysilane (2530-85-0) :
CL50/LC50 : 1042.00 mg/l - 96h Danio rerio - CE50/EC50 : 876.00 mg/l-48h Daphnia magna

12.2. Persistence and degradability

Ethanol; ethyl alcohol (64-17-5) : 84% (20 days)
Butanone; ethyl methyl ketone (78-93-3) : 98% (after 28 days - OECD 301D)

12.3. Bioaccumulative potential

No specific data available

12.4. Mobility in soil

No specific data available

12.5. Results of PBT (persistent, bioaccumulative and toxic) and vPvB (very persistent and very bioaccumulative) assessment

This mixture does not contain any PBT or vPvB substances

12.6. Other adverse effects

No additional adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste and empty containers must be handled in accordance with local regulations.
Waste should not be disposed of with household waste or discharged into drains or water courses.

European Waste Catalogue

08 03 12 *Ink waste containing hazardous substances

Section 14: Transport information

Roads ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

UN number	1210
Shipping name	PRINTING INK RELATED MATERIAL, flammable
Hazard class	3
Packing group	II
Labels	3
Classification code	F1
Hazard identification no.	33
Tunnel restriction code	2(D/E)

Railways RID (Regulations concerning the International Carriage of Dangerous Goods by Rail

UN number	1210
Shipping name	PRINTING INK RELATED MATERIAL, flammable
Hazard class	3
Packing group	II
Labels	3
Classification code	F1
Hazard identification no.	33

Sea IMDG (International Maritime Dangerous Goods Code)

UN number	1210
Shipping name	PRINTING INK RELATED MATERIAL, flammable
Hazard class	3
Packing group	II
Labels	3
Classification code	F1
Hazard identification no.	

Air OACI/IATA

UN number	1210
Shipping name	PRINTING INK RELATED MATERIAL, flammable
Hazard class	3
Packing group	II
Labels	3
Classification code	F1
Hazard identification no.	

Pollutant

Potentially hazardous products

Ethanol; ethyl alcohol
Butanone; ethyl methyl ketone

Special precautions to be taken by the user

No particular precautions specified

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

Not applicable

Section 15: Regulatory Information

-This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 of 18 December 2006 (known as REACH).
-The product is classified and labeled in accordance with Regulation (EC) No. 1272/2008 of 16 December 2008 (known as CLP).
-This safety data sheet complies with the requirements of GB/T16483-2008 Safety data sheet for chemical products - content and order of sections.
-The products is classified and labeled in accordance with GB15258-2009 general rules for preparation of precautionary label for chemicals.

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

European Union

Comply with Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Follow Directive 94/33/EC on the protection of young people at work.

France

Occupational illnesses: issue No. 87-4 bis OJ code SS, Articles L 461-1 to 8: Table No. 65.

China

Follow law of the Peoples Republic of China on Prevention and Control of Occupational Diseases.

15.2. Chemical safety assessment

No chemical safety evaluation has been performed.

Section 16: Other information

General information

This product is intended for professional users. See technical data sheet for additional information on intended use.

The information contained in this safety data sheet is based on our knowledge at the date of publication, and relates to the product concerned and information provided by our suppliers for the ingredients used in the product.

Users should be aware of the potential risks when a product is used for purposes other than those for which it was intended

Revisions

Revision date	09/03/15
Revision	0
SDS No.	3069
Date	09/03/15

Hazard statements in full

H225 : Highly flammable liquid and vapour.

H317 : May cause an allergic skin reaction.

H319 : Causes serious eye irritation.

Abbreviations and acronyms used

CAS Chemical Abstract Service
EINECS European Inventory of Existing Commercial Chemical Substances
REACH Registration, Evaluation, Authorisation of Chemicals

Method of assessing information on hazards

		Method used for classification
Flam. Liq. 2	H225	Test based method
Skin Sens. 1B	H317	Calculation based method
Eye Irrit. 2	H319	Calculation based method