

Issue Date 20-Sep-2017 (DD-MM-YYYY)

**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier****Product name** ECOSOLJET FLUSH**H- Product code** 012224**E- Product code** S6082247-M44C02BW-M44C02BW**Pure substance/mixture** mixture**1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended Use** Cleaner for solvent-based ink jet ink**Uses advised against** No information available**1.3. Details of the supplier of the safety data sheet****Company Name**  
SAKATA INX CORP.  
4-1-12, Kitagawara, Itami,  
Hyogo 664-8507 Japan  
+81-72-785-7703**Importer / Supplier**  
ColorJet India Limited  
B-195, Phase- II  
Noida, U.P.  
+91 120-4548195For further information, please contact**Contact Point** HSE Group  
81-72-785-7703**Email address** -**1.4. Emergency telephone number****Emergency telephone** -**Section 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H335,H336)

**2.2. Label elements****Symbols/Pictograms**

**signal word**  
WARNING

**Hazard Statements**

H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness or dizziness

**precautionary statements**

P264 - Wash face, hands and any exposed skin thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
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  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 - Use only outdoors or in a well-ventilated area  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
P501 - Dispose of contents/ container to an approved waste disposal plant

**2.3. Other hazards**

**General Hazards** No information available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances****Ingredients contributing to the classification of the mixture, etc.**

Chemical name	EC No	CAS No	weight-%	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP] / Other	REACH registration number
Diethylene glycol diethyl ether	203-963-7	112-36-7	40-50	-	Eye Irrit. 2A (H319)	-
Dipropylene glycol monomethyl ether	252-104-2	34590-94-8	40-50	-	Eye Irrit. 2B (H320) STOT SE 3 (H335) STOT SE 3 (H336)	-
Decan-1-ol, 3,6,9-trioxa-	203-962-1	112-35-6	20-30	-	-	-

**Full text of R-phrases: see section 16**

**Full text of H- and EUH-phrases: see section 16**

**Section 4: FIRST AID MEASURES**

#### **4.1. Description of first aid measures**

<b>General advice</b>	Do not breathe dust/fume/gas/mist/vapors/spray Do not get in eyes, on skin, or on clothing
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing If breathing is irregular or stopped, administer artificial respiration Seek immediate medical attention/advice
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes Get medical attention if irritation develops and persists
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes If eye irritation persists: Get medical advice/attention
<b>INGESTION</b>	Do NOT induce vomiting Potential for aspiration if swallowed Clean mouth with water Get medical attention

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

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

### **Section 5: FIRE FIGHTING MEASURES**

#### **5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	CO2, dry chemical, dry sand, alcohol-resistant foam, mist of alkali salts water Move containers from fire area if you can do it without risk Use extinguishing measures that are appropriate to local circumstances and the surrounding environment Remove combustible materials from their surroundings immediately
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire

#### **5.2. Special hazards arising from the substance or mixture**

#### **5.3. Advice for firefighters**

<b>Special protective equipment for fire-fighters</b>	Use personal protective equipment as required In the event of fire and/or explosion do not breathe fumes Special protective equipment for fire-fighters
<b>Special Extinguishing Media</b>	Cool container with water spray
<b>Flammable properties</b>	May re-ignite after fire is extinguished flammable Containers may explode when heated Will form explosive mixtures with air Vapors from liquefied gas are initially heavier than air and spread along ground

### **Section 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Stay upwind Evacuate personnel to safe areas ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Use personal protective equipment as required Avoid contact with skin, eyes and inhalation of vapors In the case of vapor formation use a respirator with filter model In case of fire: Stop leak if safe to do so Do not touch damaged containers or spilled material unless wearing appropriate protective clothing Ensure adequate ventilation, especially in confined areas Wash thoroughly after handling Take precautionary measures against static discharges
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<b>other information</b>	Ventilate the area
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### **6.2. Environmental precautions**

<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant Do not flush into surface water or sanitary sewer system Avoid release to the environment Collect spillage
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so
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<b>Methods for cleaning up</b>	Soak up with inert absorbent material Dam up Use only non-sparking tools
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### **6.4. Reference to other sections**

## **Section 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

<b>Advice on safe handling</b>	Take precautionary measures against static discharges Use personal protection recommended in Section 8 Use only in well-ventilated areas Avoid contact with skin, eyes or clothing Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Do not breathe dust/fume/gas/mist/vapors/spray Wash contaminated clothing before reuse Wash hands thoroughly and gargle after handling Burn or dispose of the wiping cloths used to clean up the product at once
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### **7.2. Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity) Use spark-proof tools and explosion-proof equipment Incompatible with oxidizing agents Store locked up The product shall be stored in the original containers/vessels
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### **7.3. Specific end use(s)**

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Chemical name	European Union	United Kingdom	France	Spain	Germany
Dipropylene glycol monomethyl ether	Skin TWA: 50 ppm TWA: 308 mg/m <sup>3</sup>	STEL: 150 ppm STEL: 924 mg/m <sup>3</sup> TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> Skin	Skin TWA: 50 ppm TWA: 308 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 310 mg/m <sup>3</sup> Ceiling / Peak: 50 ppm Ceiling / Peak: 310 mg/m <sup>3</sup>
Decan-1-ol, 3,6,9-trioxa-	-	-	-	-	TWA: 50 mg/m <sup>3</sup> Ceiling / Peak: 100 mg/m <sup>3</sup>

Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Dipropylene glycol monomethyl ether	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> Skin	STEL: 150 ppm TWA: 50 ppm TWA: 308 mg/m <sup>3</sup>	TWA: 300 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 310 mg/m <sup>3</sup> Skin	TWA: 50 ppm TWA: 309 mg/m <sup>3</sup> Skin

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Sweden	Czech Republic	Luxembourg
Dipropylene glycol monomethyl ether	Skin STEL: 100 ppm STEL: 614 mg/m <sup>3</sup> TWA: 50 ppm TWA: 307 mg/m <sup>3</sup>	STEL: 50 ppm STEL: 300 mg/m <sup>3</sup> TWA: 50 ppm TWA: 300 mg/m <sup>3</sup>	STEL: 480 mg/m <sup>3</sup> TWA: 240 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 300 mg/m <sup>3</sup> Skin STEL: 75 ppm STEL: 375 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 308 mg/m <sup>3</sup> STEL: 150 ppm STEL: 924 mg/m <sup>3</sup> Skin	50 ppm LLV; 300 mg/m <sup>3</sup> LLV Skin notation 75 ppm STV; 450 mg/m <sup>3</sup> STV	Ceiling: 550 mg/m <sup>3</sup> TWA: 270 mg/m <sup>3</sup> Skin	-

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2. Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas  
Showers  
Eyewash stations  
Ventilation systems

#### Personal protective equipment

**Eye/face Protection** Wear safety glasses with side shields (or goggles)

**Hand Protection** Wear protective gloves

**Skin and Body Protection** Wear suitable protective clothing  
Antistatic footwear

**Respiratory protection** Wear suitable respiratory equipment  
Respirator cartridge should be exchanged at regular intervals or at proper time according to breakthrough time

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical State	liquid	ODR	ether
appearance	No information available	odor threshold	No information available
color	clear		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	not applicable	
Melting point/freezing point	no data available	
Boiling point/boiling range	no data available	No information available
Flash Point	$\geq 70^{\circ}\text{C}$	Ceta Closed Cup
Evaporation Rate	no data available	No information available
Combustibility	no data available	
Flammability Limits in Air		
Upper flammability limits	no data available	
Lower Flammability Limit	no data available	
vapor pressure	no data available	No information available
Vapor Density	no data available	No information available
Specific gravity	0.9-1.1	
solubility(ies)		
Water solubility	Soluble in water	
Organic Solvent Solubility	soluble in organic solvents	
Partition coefficient	no data available	No information available
Autoignition Temperature	no data available	No information available
decomposition temperature	no data available	No information available
Kinematic viscosity	no data available	
Explosive properties	No information available	
Oxidizing properties	No information available	

### 9.2. Other information

Softening point	no data available
Density	no data available

Chemical name	Boiling point °C	Density	vapor pressure	Vapor Density	Flash Point	Autoignition Temperature
Diethylene glycol diethyl ether	188 °C	-	0.5 mmHg at 25 °C	-	82 °C open cup	-
Dipropylene glycol monomethyl ether	190 °C	0.95 g/cm <sup>3</sup> at 20 °C	-	5.11	75 °C closed cup	270 °C
Decan-1-ol, 3,6,9-trioxa-	246 °C	-	0.1 hPa at 20 °C	-	118 °C open cup	210 °C

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Remarks	no data available
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### 10.2. Chemical stability

stability	Stable under normal conditions Heating may cause an explosion
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#### Explosion data

**Sensitivity to Mechanical Impact** May be ignited by heat, sparks or flames

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames

### 10.3. Possibility of hazardous reactions

**10.4. Conditions to avoid**

**Conditions to Avoid** Take precautionary measures against static discharges  
Extremes of temperature and direct sunlight

**10.5. Incompatible materials**

**Incompatible Materials** Reference to other sections; 7

**10.6. Hazardous decomposition products**

**Hazardous Decomposition Products** May emit toxic fumes under fire conditions

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity**

**Inhalation** Reference to other sections; 4  
**Eye contact** Reference to other sections; 4  
**Skin contact** Reference to other sections; 4  
**INGESTION** Reference to other sections; 4

**Unknown acute toxicity** 60.0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 5,230.00  
**ATEmix (dermal)** 9,500.00

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Classification according to 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP] / Other	Japan GHS Classification / Other
Dipropylene glycol monomethyl ether	5230 mg/kg ( Rat )	9500 mg/kg ( Rabbit )	-	-	Eye Irrit. 2B (H320) STOT SE 3 (H335) STOT SE 3 (H336)	Eye Irrit. 2B STOT SE 3 Flam. Liq. 4
Diethylene glycol diethyl ether	-	-	-	-	Eye Irrit. 2A (H319)	Eye Irrit. 2A Flam. Liq. 4

**GHS/CLP Classification Note:**

Acute Tox. Der. :Acute toxicity - Dermal, Acute Tox. Inh. (D/M) :Acute toxicity - Inhalation - Dusts and Mists, Acute Tox. Inh. (Gas) :Acute toxicity - Inhalation - Gases, Acute Tox. Inh. (Vap) :Acute toxicity - Inhalation - Vapours, Acute Tox. Oral :Acute toxicity - Oral, Aquatic Acute :Acute Hazardous to the aquatic environment, Aquatic Chronic :Chronic Hazardous to the aquatic environment, Asp. Tox. :Aspiration hazard, Carc. :Carcinogenicity, Expl. :Explosives, Eye Dam. :Serious eye damage, Eye Irrit. :Eye irritation, Flam. Gas :Flammable gases (including chemically unstable gases), Flam. Liq. :Flammable liquids, Flam. Solid :Flammable solids, Lact. :Effects on or via lactation, Met. Corr. :Corrosive to metals, Muta. :Germ cell mutagenicity, Org. Perox. :Organic peroxides, Ox. Gas :Oxidizing gases, Ox. Liq. :Oxidizing liquids, Ox. Sol. :Oxidizing solids, Press. Gas :Gases under pressure, Pyr. Liq. :Pyrophoric liquids, Pyr. Sol. :Pyrophoric solids, Repr. :Reproductive toxicity, Resp. Sens. :Respiratory sensitization, Self-heat. :Self-heating substances and mixtures, Self-react. :Self-reactive substances and mixtures, Skin Corr. :Skin corrosion, Skin Irrit. :Skin irritation, Skin Sens. :Skin sensitization, STOT RE :Specific target organ toxicity – Repeated exposure, STOT SE :Specific target organ toxicity – Single exposure, Water-react. :Substances and mixtures which, in contact with water emit flammable gases

**skin corrosion/irritation** No information available

**Serious eye damage/eye irritation** No information available

Sensitization	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Aspiration hazard	No information available

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

100% of the mixture consists of component(s) of unknown hazards to the aquatic environment

### 12.2. Persistence and degradability

Persistence and degradability No information available

### 12.3. Bioaccumulative potential

Bioaccumulation No information available

Chemical name	Partition coefficient
Dipropylene glycol monomethyl ether	-0.064
Decan-1-ol, 3,6,9-trioxa-	1.13

### 12.4. Mobility in soil

Mobility in soil No information available

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available

### 12.6. Other adverse effects

Other adverse effects No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste from Residues/Unused Products	Should not be released into the environment Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal



## other information

Store in a tightly sealed drum to prevent the spillage of the content

**Section 14: TRANSPORT INFORMATION**

Containers/vessels must be leakage-free. Loading must be done to prevent containers from falling, dropping down and being damaged  
Take necessary steps to prevent collapse

UN Number not applicable  
Packing Group not applicable  
ERG Code 133  
Proper Shipping Name not applicable

**IMDG**

14.1 UN Number not applicable  
14.2 Proper Shipping Name Not regulated  
14.3 Hazard Class Not regulated  
14.4 Packing Group not applicable  
14.5 Marine pollutant not applicable  
14.6 Special Provisions None  
14.7 Transport in bulk according to No information available  
Annex II of MARPOL 73/78 and the IBC Code

**RID**

14.1 UN Number not applicable  
14.2 Proper Shipping Name Not regulated  
14.3 Hazard Class Not regulated  
14.4 Packing Group not applicable  
14.5 Environmental hazard not applicable  
14.6 Special Provisions None

**ADR**

14.1 UN Number not applicable  
14.2 Proper Shipping Name Not regulated  
14.3 Hazard Class Not regulated  
14.4 Packing Group not applicable  
14.5 Environmental hazard not applicable  
14.6 Special Provisions None

**ICAO (air)**

14.1 UN Number not applicable  
14.2 Proper Shipping Name Not regulated  
14.3 Hazard Class Not regulated  
14.4 Packing Group not applicable  
14.5 Environmental hazard not applicable  
14.6 Special Provisions None

**IATA**

14.1 UN Number not applicable  
14.2 Proper Shipping Name Not regulated  
14.3 Hazard Class Not regulated  
14.4 Packing Group not applicable  
14.5 Environmental hazard not applicable  
14.6 Special Provisions None

**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical name	CAS No	French RG number	Seveso III Directive
Diethylene glycol diethyl ether	112-36-7	RG 84	No information available
Dipropylene glycol monomethyl ether	34590-94-8	RG 84	No information available
Decan-1-ol, 3,6,9-trioxa-	112-35-6	RG 84	No information available

## European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use: This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

## Section 16: OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

No information available

### Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

H320 - Causes eye irritation

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

**Key literature references and sources for data** LOLI Database (ChemADVISOR, Inc.)

**Issue Date** 20-Sep-2017 (DD-MM-YYYY)

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**