SAFETY DATA SHEET

Section 1: Identification: Product identifier and chemical identity

Product Name: HighTemperatureWhite, RGD525™
Product Code(s): SDS-06109 EN U
PN (Part Number): OBJ-03256, OBJ-04056

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN Number: UN3082
Pure substance/mixture: Mixture

Recommended use of the chemical and restrictions on use

Recommended Use: Printing inks
Uses advised against: This product is a cartridge containing ink. Under normal conditions of use, the substance is released from a cartridge only inside an appropriate printing system, and therefore, exposure is limited

Details of manufacturer or importer

Importers:
- Objective3D Pty Ltd
  33-35 Yazaki Way
  Carrum Downs, 3201
  Victoria, Australia
  Phone: +613 9785 2333
  Local: +1300 559 454
  Fax: +613 9785 2322
- TCL Hofmann
  VIC - Braeside
  150 Woodlands Drive
  Braeside VIC 3195
  Australia
  Phone: +613 8586 2900
  Fax: +613 9580 8322

For further information, please contact

E-mail address: info@Stratasys.com

Emergency telephone number

Emergency telephone number: +61 2 8014 4558 - Australia - English Language response

Section 2: Hazard(s) identification

GHS Classification

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2 - (H315)</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1 - (H318)</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Category 1B - (H317)</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2 - (H373)</td>
</tr>
</tbody>
</table>
Label elements

Exclamation mark
Health hazard
Corrosion
Environment

Signal word
Danger

Hazard statements
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapours/spray

Precautionary Statements - Response
Get medical advice/attention if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other hazards
May be harmful if swallowed. Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

Section 3: Composition and information on ingredients, in accordance with Schedule 8

<table>
<thead>
<tr>
<th>Substance</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td></td>
</tr>
<tr>
<td>Chemical name</td>
<td>CAS No</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
</tr>
<tr>
<td>Non-hazardous ingredients</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

Section 4: First aid measures
Description of first aid measures

General advice
Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation
Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact
Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact
Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.

Ingestion
Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

Self-protection of the first aider
Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms

Indication of any immediate medical attention and special treatment needed

Note to doctors
May cause sensitisation in susceptible persons. Treat symptomatically.

Section 5: Firefighting measures

Suitable Extinguishing Media
Use extinguishing agent suitable for type of surrounding fire. Class B fires: Use carbon dioxide (CO2), regular dry chemical (sodium bicarbonate), regular foam (Aqueous Film Forming Foam-AFFF), or water spray to cool containers.

Unsuitable extinguishing media
No information available.

Specific hazards arising from the chemical
Product is or contains a sensitisier. May cause sensitisation by skin contact.

Special protective actions for fire-fighters
Cool containers with flooding quantities of water until well after fire is out. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Move containers from fire area if you can do it without risk. Use personal protection equipment. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Keep out of drains, sewers, ditches and waterways. Inhalation is a health risk.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other Information
Refer to protective measures listed in Sections 7 and 8.

For emergency responders
Use personal protection recommended in Section 8.
Environmental precautions

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment

Methods for containment.

Methods for cleaning up

Pick up and transfer to properly labelled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Advice on safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Do not eat, drink or smoke when using this product. Heating may cause a fire.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in a cool, well ventilated area. Store in accordance with local regulations. Keep container tightly closed. Store between 15 °C and 27 °C. Shipment temperature (up to 5 weeks) is -20 °C to 50 °C. Store in a combustible storage area away from heat and open flame.

Incompatible materials


Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles.

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing.

Hand Protection

Wear suitable gloves. Impervious gloves.
Respiratory protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls
No information available.

Section 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Ink cartridge</td>
<td></td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic.</td>
<td></td>
</tr>
<tr>
<td>Colour</td>
<td>white</td>
<td></td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash point</td>
<td>117 °C</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.10</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Insoluble in water</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
</tbody>
</table>

Other information
- Softening point: No information available
- Molecular weight: No information available
- VOC Content (%): No information available
- Liquid Density: No information available
- Bulk density: No information available
- Particle Size: No information available
- Particle Size Distribution: No information available

Section 10: Stability and reactivity

Reactivity
No information available.

Chemical stability

Stability
Stable under normal conditions.

Explosion data
- Sensitivity to Mechanical Impact: None.
- Sensitivity to Static Discharge: None.

Possibility of hazardous reactions
Possibility of hazardous reactions
None under normal processing.

Conditions to avoid
None known based on information supplied.

Incompatible materials

Hazardous decomposition products

Section 11: Toxicological information

Acute toxicity

Information on likely routes of exposure

Product Information

Inhalation
May cause irritation of respiratory tract. (based on components).

Eye contact
Severely irritating to eyes. Causes serious eye damage. May cause irreversible damage to eyes. (based on components).

Skin contact
May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

Ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea (based on components)

Symptoms

Numerical measures of toxicity - Product Information

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

ATEmix (oral) 2,152.50 mg/kg mg/l

Unknown acute toxicity
0 % of the mixture consists of ingredient(s) of unknown toxicity
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td>588 mg/kg (rat)</td>
<td>&gt; 2000 mg/kg (rat)</td>
<td>5.28 mg/l (rat)</td>
</tr>
<tr>
<td>Proprietary</td>
<td>2,000 mg/kg (Rat) (Method: OECD Test Guideline 423)</td>
<td>2,000 mg/kg (Rat)(Method: OECD Test Guideline 402)</td>
<td>-</td>
</tr>
<tr>
<td>Proprietary</td>
<td>4890 mg/kg ( Rat )</td>
<td>&gt; 3000 mg/kg ( Rabbit )</td>
<td>-</td>
</tr>
<tr>
<td>Proprietary</td>
<td>(Rat) LD50 = 1,590 - 3,910 mg/kg (Rabbit) LD50 = &gt; 2,000 mg/kg (Rat) 1 h LC0 = 6.7 mg/l</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Proprietary</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 2000 mg/kg ( Rat )</td>
<td>-</td>
</tr>
</tbody>
</table>
See section 16 for terms and abbreviations

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation**
Classification based on data available for ingredients. Irritating to skin.

**Serious eye damage/eye irritation**
Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

**Respiratory or skin sensitisation**
May cause sensitisation by skin contact. Classification based on data available for ingredients.

**Germ cell mutagenicity**
No information available.

**Carcinogenicity**
No information available.

**Reproductive toxicity**
No information available.

**STOT - single exposure**
No information available.

**STOT - repeated exposure**
Classification based on data available for ingredients.

**Aspiration hazard**
No information available.

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**Section 12: Ecological information**

**Ecotoxicity**

**Unknown aquatic toxicity**
0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td>120 mg/l (algae)</td>
<td>-</td>
<td>-</td>
<td>120 mg/kg (daphnia)</td>
</tr>
<tr>
<td>Proprietary</td>
<td>(Pseudokirchneriella subcapitata) : 1.6 mg/l (Method: OECD Test Guideline 201)</td>
<td>(Fish) : 4.95 mg/l</td>
<td>-</td>
<td>(Daphnia magna Straus) : 2.36 mg/l (Method: OECD Test Guideline 202)</td>
</tr>
<tr>
<td>Proprietary</td>
<td>1.98 mg/l Fresh water</td>
<td>0.704 mg/l Fresh water</td>
<td>-</td>
<td>0.524 mg/l Fresh water</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Pseudokirchneriella subcapitata (green algae) 96 h EC50 = 0.17 mg/l</td>
<td>Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 27 mg/l</td>
<td>-</td>
<td>Daphnia magna (Water flea) 48 h EC50 = 95 mg/l</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
<td>90: 96 h Danio rerio µg/L LC50 semi-static</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

**Persistence and degradability**
No information available.

**Bioaccumulative potential**

**Bioaccumulation**
There is no data for this product.

**Mobility**

**Mobility in soil**
No information available.
Mobility

No information available.

Other adverse effects

No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging
Do not reuse empty containers.

Section 14: Transport information

Additional information
The environmentally hazardous substance mark is not required when transported in sizes of ≤5L or ≤5kg
The marine pollutant mark is not required when transported in sizes of ≤5L or ≤5kg

ADG

UN Number
UN3082

Proper Shipping Name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class
9

Packing group
III

Environmental Hazard
Yes

Special Provisions
274, 331, 335, 375, AU01

Description
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

IATA

UN Number
UN3082

UN proper shipping name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es)
9

Packing group
III

ERG Code
9L

Special Provisions
A97, A158, A197

Description
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

IMDG

UN number
UN3082

UN proper shipping name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es)
9

Packing group
III

EmS-No
F-A, S-F

Special Provisions
274, 335, 969

Marine pollutant
This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO

Description
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, Marine pollutant

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available

EN / UGHS
Section 15: Regulatory information

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

National regulations

Australia
See section 8 for national exposure control parameters

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>IECSC</td>
<td>No information available</td>
</tr>
<tr>
<td>KECL</td>
<td>No information available</td>
</tr>
<tr>
<td>PICCS</td>
<td>No information available</td>
</tr>
<tr>
<td>AICS</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer  Not applicable

The Stockholm Convention on Persistent Organic Pollutants  Not applicable

The Rotterdam Convention  Not applicable

Section 16: Any other relevant information

Prepared By
TSCA;
IECSC; http://cciss.cirs-group.com/
EU Regulation 1272/2008
TOMES-LOLI®; http://www.rightanswerknowledge.com/loginRA.asp
UN Recommendations on the transport of dangerous goods 19th Edition
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans;
ECHA CHEM;
OECD SIDS; http://webnet.oecd.org/Hpv/UI/Search.aspx
EPA; http://www.epa.gov/iris
EPISUITE Program ver.4.1
NIOSH (The National Institute for Occupational Safety and Health)
ACGIH (American Conference of Governmental Industrial Hygienists)
Waste Control Act enforcement regulation attached [1]
National chemicals information systems; http://ncis.nier.go.kr
Korea National Fire Agency-Korea dangerous material inventory management system;
http://hazmat.mpss.kfi.or.kr/material.do
Korea Ministry of Employment and Labor Public Notice No. 2016-19
Korea Ministry of Employment and Labor Public Notice No. 2018-24

Revision Date 21-May-2020

Revision Note
The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend  Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA  TWA (time-weighted average)  STEL  STEL (Short Term Exposure Limit)
Ceiling  Maximum limit value  *  Skin designation
C  Carcinogen

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End of Safety Data Sheet