Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

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

Other means of identification

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 the supplier of the safety data sheet

Importer: Objective3D Ltd
BDO Taranaki Limited
10 Young Street
New Plymouth, New Plymouth 4310
New Zealand
Phone: +64 9 801 0380

For further information, please contact

Contact Point: Product Safety Department
E-mail address: info@Stratasys.com

Emergency telephone number

Emergency Telephone: +64 9 929 1483 - New Zealand - English Language response

Section 2: HAZARDS IDENTIFICATION

ERMA New Zealand HSNO approval code or group standard: HSR002670

GHS Classification

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
<th>HSNO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 5</td>
<td>(HSNO - 6.1E)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
<td>(HSNO - 6.3A)</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
<td>(HSNO - 8.3A)</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Category 1B</td>
<td>(HSNO - 6.5B)</td>
</tr>
</tbody>
</table>
Specific target organ toxicity (repeated exposure) Category 2 (HSNO - 6.9B)
Acute aquatic toxicity Category 2 (HSNO - 9.1D)
Chronic aquatic toxicity Category 2 (HSNO - 9.1B)

Label elements

Signal word
Danger

Hazard statements
H303 - May be harmful if swallowed
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
H411 - Toxic to aquatic life with long lasting effects

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

Precautionary Statements - Response
Call a POISON CENTER or doctor/physician 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 CENTRE or doctor
IF ON SKIN: Wash with plenty of water and soap
Take off all contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention
Collect spillage

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

Other hazards
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Not applicable

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td>-</td>
<td>10-30</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
<td>10-30</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
<td>10-30</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
<td>10-30</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
<td>3-10</td>
</tr>
<tr>
<td>Proprietary</td>
<td>-</td>
<td>0.3-1</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: FIRE-FIGHTING 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 sensitiser. 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
Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment
Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Methods for cleaning up
Pick up and transfer to properly labelled containers.

Precautions to prevent secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Precautions for safe handling
Avoid breathing vapours or mists. Wash thoroughly after 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
Not applicable under normal conditions of use and storage.

Section 8: EXPOSURE CONTROLS/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.

Biological occupational exposure limits
Not applicable.

Appropriate engineering controls

Engineering controls
Showers
Individual protection measures, such as personal protective equipment

Eye/face protection  Tight sealing safety goggles.

Hand Protection  Wear suitable gloves. Impervious gloves.

Skin and body protection  Wear suitable protective clothing. Long sleeved clothing.

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

Information on basic 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>

Section 10: STABILITY AND REACTIVITY

Reactivity
Reactivity
Heating may cause a fire.

Chemical stability
Stability
Decomposes on exposure to light. Unstable if heated.

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
Conditions to avoid
Avoid exposure to heat and light. Uncured ink will polymerize on exposure to light.

Incompatible materials
Incompatible materials
Not applicable under normal conditions of use and storage.

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 acute toxicity
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</td>
<td>&gt; 3000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Proprietary</td>
<td>(Rat) LD50 = 1,590 - 3,910 mg/kg</td>
<td>(Rabbit) LD50 = &gt; 2,000 mg/kg</td>
<td>(Rat) 1 h LC0 = 6.7 mg/l</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.

Sensitisation No information available.

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. IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Toxic to aquatic life with long lasting effects

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>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td>120 mg/l (algae)</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>(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>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>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>
</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
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

#### Road transport

**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
Section 15: REGULATORY INFORMATION

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

National regulations

New Zealand

Exposure Limits

Certified handlers, tracking and controlled substance licence requirements

- Certified handlers are required for some substances. This includes for substances requiring a controlled substance licence, including Class 1 explosives, vertebrate toxic agents (9.3A, B, C), and certain fumigants. Class 6.1A and 6.1B substances such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information.
- Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured Please check the Health and Safety at Work Act 2015 for further information.
- Controlled substance licences are required to possess certain class 1 (explosive) and class 6 (vertebrate toxic agents or fumigants) substances. See Part 7 of the Health and Safety at Work Regulation 2017 for more information.

ERMA New Zealand HSNO approval code or group standard

HSR002670

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Zealand HSNO Chemical Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary -</td>
<td>6.3A, 6.4A</td>
</tr>
</tbody>
</table>

International Inventories

NZIoC - No information available
TSCA - Complies
DSL/NDSL - Complies
EINECS/ELINCS - Complies
ENCS - Complies
IESCC - No information available
KECL - No information available
PICCS - No information available
AICS - No information available

Legend:

NZIoC  - New Zealand Inventory of Chemicals
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: OTHER INFORMATION

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