

SAFETY DATA SHEET

Product Reference: 12-HC-121
Date: 10/10/05

Revision no: 1
Cust Ref:

1. IDENTIFICATION OF PRODUCT & COMPANY

Product name: DRY OFFSET GLOSS 7P VARNISH

Product code: 12-HC-121

Intended use: Printing ink/associated product.

Company details: SUN CHEMICAL GIBBON
3 HIGH VIEW ROAD
SOUTH NORMANTON
DERBYSHIRE DE55 2DT

Telephone:

Emergency telephone:

2. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EINECS No	% Range	Symbol	R Phrases ¹
multifunctional acrylate nos	polymer	> 50	Xi	R36/38
benzophenone	204-337-6	5 - 20	Xi	R36/38, R52/53
dipropylene glycol diacrylate	260-754-3	5 - 20	Xi	R43, R36/38, R41
tripropylene glycol diacrylate (TPGDA)	256-032-2	5 - 20	Xi, N	R36/37/38, R43, R51, R53

¹ See section 16 for full text of R phrases - the R phrases shown above may not reflect the classification of this product (see sect. 3 & 15).

3. HAZARDS IDENTIFICATION

Hazards according to 1999/45/EC (as amended):

May cause sensitization by skin contact

Irritating to eyes, respiratory system and skin

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

This product is not classified as hazardous if this section is blank

4. 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. Show this data sheet to qualified medical practitioners attending the patient.

Inhalation:

Remove the patient to fresh air and keep them warm and at rest. If the breathing is irregular or stopped, administer artificial respiration. Give no food or drink by mouth. If unconscious, place in the recovery position and seek medical advice.

Eye contact:

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

Skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water or a proprietary skin cleaner - Do **NOT** use solvent or thinners.

Ingestion:

If accidentally swallowed, obtain immediate medical attention. Keep the patient at rest. Do **NOT** induce vomiting.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Alcohol resistant foam, carbon dioxide, powder or sand are recommended. Water mist/spray can be used for cooling.

Do **NOT** use a water jet.

Recommendations:

Fire will produce dense, black smoke containing hazardous products of combustion (see section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray to reduce the risk of rupture/explosion. Do not allow the run-off from fire fighting to enter drains or water courses. Ensure that this data sheet is made available to professional fire fighters.

6. ACCIDENTAL RELEASE MEASURES

Exclude non-essential personnel.

Refer to protective measures listed in sections 7 & 8 of this data sheet.

Contain all spillages with a non-combustible, absorbent material such as sand, earth, vermiculite or diatomaceous earth, and place in a suitable container for disposal (see section 13). If the product contaminates waterways, rivers or drains alert the relevant authorities in accordance with statutory procedures (see section 16). Clean preferably with a detergent. Do not use solvents.

7. HANDLING & STORAGE

General:

Store in a well ventilated area and at a temperature between 5 and 25°C. Do not store in sunlight. Prevent access by unauthorised personnel. Observe precautions stated on the label, and also industrial safety regulations. Packages that have been opened, and contents part used, must be reclosed tightly and stored in an upright position. Smoking, eating and drinking should be avoided when handling the product. Never open containers under pressure. Store in an area where the floor is impermeable and forms a collecting basin, so that, in the event of accidental spillage, the product cannot spread (bund).

Special precautions:

Minimise handling during use (mixing, pumping, agitation) that creates shear and temperature - never allow product temperature to exceed 45°C. Do not mix with amines, acids or oxidising materials. Do not mix with any other wastes (see section 13).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures / breathing apparatus:

Provide adequate ventilation. Where reasonably practicable this should be achieved by use of local exhaust ventilation and good general extraction. The product has a low vapour pressure and contains no substances with an occupational exposure standard or substances that are known to cause short or long-term harm to health by inhalation. However, exposure to any ink mists evolved during printing should be avoided.

Hand protection:

When skin exposure is more likely to occur, for example during cleaning activities, protective gloves/gauntlets of a length to overlap the sleeves of overalls should be worn. RadTech recommends the use of:

- Single use, disposable, unpowdered nitrile gloves for short duration exposures not exceeding 30 minutes, in situations where only splashes are likely. Do not use where mechanical resistance is required, or where puncturing or tearing of the gloves is likely to occur. Replace immediately when punctured or degraded.
- Minimum 0.45mm thickness, unlined, unpowdered, natural rubber latex-free nitrile gloves for longer duration exposure (up to 4 hours continuous) or activities involving mechanical handling. Change immediately when punctured or when a change of appearance (colour, elasticity, shape) occurs.
- Heavy duty, unlined, natural rubber latex-free nitrile gloves when handling solvents. Avoid the use of chlorinated solvents and limit the use of ketones (eg acetone, MEK, MIBK) and ethyl and butyl acetates, as they may accelerate glove deterioration. Change immediately when punctured or when a change of appearance (colour, elasticity, shape) occurs.

In all cases, purchase gloves from reputable suppliers, as poor quality gloves may increase the risk of contact dermatitis (irritation, etc). Protective gloves may increase the risk of entanglement. Keep hands away from operating rollers or presses. Protective creams may be used for exposed skin. Ensure that these are applied before handling product, and reapplied at regular intervals (but not after contact with the product). Protective creams are not a substitute for the correct protective gloves. The use of after work moisturising cream is recommended.

Eye and face protection:

Use eye protectors designed to protect against liquid splashes, especially during cleaning and dosing (pouring) operations.

Skin protection:

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and laundered or discarded. Skin should be washed with soap and water or a proprietary skin cleaner.

ALWAYS WASH YOUR HANDS BEFORE EATING, DRINKING, SMOKING OR USING THE TOILET.

Environmental protection:

This product should not be allowed to enter drains or water courses. Refer to sections 13, 15 and 16 of this data sheet for further information and guidance.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state: Low/medium viscosity liquid
Flash Point (°C): >100

Non volatile content (%):	99
Volatile organic compound(%):	0
Solubility in water:	Insoluble

Further chemical and physical details may be available on request (technical data sheet)

10. STABILITY AND REACTIVITY

The product is stable under the recommended storage and handling conditions (see section 7), and is not easily ignited at workplace temperatures. At elevated temperatures (in a fire), the product will burn readily, and hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced. Keep away from oxidising agents and substances that are strongly alkaline or acidic in order to minimise the risk of exothermic reactions. Do not mix products containing aluminium (silver inks) with water or any other materials, including wastes. Do not mix cationic products with other UV curable products, including wastes. If in doubt, seek advice of supplier.

11. TOXICOLOGICAL INFORMATION

There are no data available on the product itself. No substances classified as toxic or very toxic (67/548/CEE) are intentionally contained in the product, which is a preparation (that is, there are no reaction products formed during its manufacture). Excessive exposure by inhalation to the decomposition products in the event of a fire, may result in adverse health effects such as irritation of the mucous membrane and respiratory system, and effects on the renal and central nervous system. Symptoms involve headache, dizziness, fatigue, muscular weakness, drowsiness, and, in extreme cases, loss of consciousness. Exposure by inhalation to ink/varnish mists may lead to irritation of the respiratory system and mucous membrane, with redness, rashes and/or blistering. Skin contact with the product may lead to irritation, with redness, rashes and/or blistering. The symptoms of irritation are reversible following thorough removal of the product from the affected areas. Exposure to the product may, in some individuals, cause sensitisation (allergic contact dermatitis) or the symptoms of irritation in individuals already sensitised. Eye contact will cause irritation and reversible local damage, or sensitisation.

12. ECOLOGICAL INFORMATION

There are no data available for the product itself. However, the product may be classified to be dangerous to the environment by calculation (see sections 3 and 15 of this data sheet). In addition, the product may contain components that are classified as dangerous for the environment (67/548/CEE), and those that are present at a concentration greater than 1% by weight are identified in section 2 of this data sheet with the risk phrases R50 to R59 (or combinations thereof) assigned. Section 16 of the data sheet gives the full text of applicable risk phrases. Further ecotoxicological information on individual components of the product may be available on request. The product should not be allowed to enter drains or water-courses unless an appropriate consent to discharge has been obtained. The product must not be deposited where it can affect ground or surface waters. Local air pollution control requirements may affect the use of this product. See sections 9 (VOC content) and 16 of this data sheet.

13. DISPOSAL CONSIDERATIONS

Do not dispose of this product into drains or water courses, or where ground or surface waters may be affected, unless you have a relevant local authority discharge consent to do so. Wastes, including emptied containers, are special wastes/hazardous wastes, within the meaning of local waste regulations implementing EC Directives, and their disposal should be managed accordingly. European Waste Catalogue number 08 03 02.

14. TRANSPORT INFORMATION

UN Number:

Shipping Name:

ADR/RID

IMDG

IATA/ICAO

Class:

Class:

Class:

Item:

IMDG Page:

Label:

Label:

Safety Data Sheet:

Packaging Group:

Packaging Group

Packaging Group:

Max Net Qty:

GSMU:

Note: The absence of an entry in the above table indicates that the product is not classified as dangerous for that mode of transport.

15. REGULATORY INFORMATION

This product was classified and labelled for supply in compliance with Directives (as adapted and amended):

1999/45/EC (Preparations)

67/548/CEE (Dangerous Substances)

See section 16 for local laws implementing EC Directives.

Indication of danger:

Irritant

Hazardous substances contained in product:

tripropylene glycol diacrylate (TPGDA)
dipropylene glycol diacrylate

Hazards associated with the product:

R43 May cause sensitization by skin contact
R36/37/38 Irritating to eyes, respiratory system and skin
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety recommendations:

S24/25 Avoid contact with skin and eyes
S29/35 Do not empty into drains; dispose of this material and its container in a safe way

Additional product information:

16. OTHER INFORMATION

General:

This safety data sheet replaces all previous versions (refer to top right hand corner of any page) and may contain significant new information affecting your risk assessment of the use of this product. The product should not be used for any purposes other than those listed in section 1 without first referring to the supplier and obtaining written handling instructions. As specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet is based on the present state of knowledge and current legislation. It provides guidance on the health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Local regulations and guidance relevant to this product:

Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (SI2002:1689) (as amended)
Control of Substances Hazardous to Health Regulations 2002 (SI2002:2677)
Hazardous Waste Regulations 2005 (SI2005:894)
Manual Handling Operations Regulations 1992 (SI1992:2793)
The Environmental Protection Act 1990
Secretary of State's Guidance PG6/16(04) and PG6/17(04)
COSHH Essentials for Printers

Other guidance on the use and handling of this product may be available - please ask the supplier for details.

This safety data sheet was compiled in accordance with 91/155/CEE as amended

This product conforms to the BCF guidelines on Acrylate Preference Criteria.

Text of R phrases listed in Section 2:

R36/37/38 Irritating to eyes, respiratory system and skin
R36/38 Irritating to eyes and skin
R41 Risk of serious damage to eyes
R43 May cause sensitization by skin contact
R51 Toxic to aquatic organisms
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53 May cause long-term adverse effects in the aquatic environment