



SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product name: Gem Cartowax RD460-2
Intended use: Additive for oleoresinous printing inks

Company details: Coates Lorilleux
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2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Name</u>	<u>EINECS no</u>	<u>% range</u>	<u>Symbol</u>	<u>R phrases</u>
Cobalt octoate	205-250-6	< 5	Xn	R22, R38, R43
2-Butanone Oxime	202-496-6	< 5	Xi	R43, R36
Petroleum distillate	265-183-3	20 - 50	Xn	R65*, R53

*See section 8
See section 16 for full text of R phrases. The risk phrases shown above may not reflect the classification of the product.

3. HAZARDS IDENTIFICATION

Health hazard(s) according to 1999/45/EC:
May cause sensitisation by skin contact

Flammability hazard:
None

Environmental hazard:
May cause long term adverse effects in the aquatic environment

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.

Inhalation:
Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing 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 use a proprietary skin cleaner. Do **NOT** use solvent or thinners.

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

5. FIRE FIGHTING MEASURES

Extinguishing media:

Alcohol resistant foam, CO₂, powder or water mist/spray are recommended.
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. Do not allow run-off from firefighting to enter drains or water courses.

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 non-combustible, absorbent material such as sand, earth, vermiculite and 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 AND STORAGE

General:

Store in a well ventilated area and at a temperature between 5 and 25°C. Prevent access by unauthorised personnel. Observe precautions stated on label, and also industrial safety regulations. Packages which have been opened must be reclosed tightly and stored in an upright position. Smoking, eating and drinking should be avoided when handling the product. Never open the 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 can not spread.

Particular fire prevention precautions:

Particular health protection precautions:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures / breathing apparatus:

Products have low vapour pressure, but exposure by inhalation can occur from ink/varnish mist created by offset printing presses. Inhalation of ink mist must be avoided. Where reasonably practicable, this should be achieved by use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits (below), suitable respiratory protective equipment should be worn.

Exposure limits:

<u>8hr TWA</u>	<u>15 min STEL</u>
None applicable	None applicable

*This product contains petroleum distillate which, as a single substances, can cause lung damage if swallowed. As a component of this product, the risk of occurrence is minimal due to viscosity considerations.

Hand protection:

Protective creams may be used for exposed skin. Ensure that these are reapplied at regular intervals, **but** they should not be applied after contact with the product. When skin exposure is more likely to occur, advice should be sought from glove suppliers on appropriate types. Gloves made from, or containing, nitrile rubber are recommended. Be aware of containers, tools and equipment contaminated with ink/varnish.

Eye and face protection:

Use eye protectors designed to protect against liquid splashes, especially when cleaning machinery or other equipment.

Skin protection:

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. **DO NOT EAT, DRINK, SMOKE OR USE THE TOILET WITHOUT WASHING YOUR HANDS FIRST.**

Environmental protection

Do not allow this product to enter drains or water courses. Observe local environmental regulations. See sections 12, 13 and 16 for further information.

9. PHYSICAL PROPERTIES

Physical state:	High viscosity pale violet coloured paste with characteristic odour
Flash point:	> 100°C
Vapour pressure:	< 0.01 kPa (at 293K and 101kPa)
Lower/upper explosion limit:	0.6/6.6 vol %
Solubility in water:	Insoluble
Solids content:	40 - 50%

10. STABILITY AND REACTIVITY

Product is stable under the recommended storage and handling conditions (see section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced. Keep away from oxidising agents and stingily alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
If in doubt, contact supplier.

11. TOXICOLOGICAL INFORMATION

There are no data available on the product itself. Excessive exposure to the product may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged skin contact with the product may lead to redness, rashing and blistering, and in some individuals, allergic contact dermatitis. The product is not toxic by absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.

12. ECOLOGICAL INFORMATION

There are no data available for the product itself. The product is assessed to be dangerous for the environment by calculation (see sections 3 and 15) and contains more than 1% of the substances identified in section 2 with the R-phrases 50 to 59 (or combinations thereof) assigned. The full text of R-phrases assigned to components of this product appear in section 16.

The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Local air pollution control requirements may affect the use of this product. See section 16 of this data sheet.

13. DISPOSAL CONSIDERATIONS

Do not dispose of product into drains or water courses or where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with local waste disposal requirements and current national legislation. This product is classified as special waste according to the Special Waste Regulations 1996 (SI1996:972). Coates Lorilleux recommend that empty containers are also consigned as special waste.

14. TRANSPORT INFORMATION

Product is not classified for transport purposes.

15. REGULATORY INFORMATION

This product was classified and labelled for supply in compliance with directives:

1999/45/EC (Preparations)
67/548/CEE (Hazardous Substances)

See section 16 for local implementation of CEE Directives.

Hazardous Substances contained in product:

Cobalt octoate 205-250-6
2-Butanone oxime 202-496-6

Hazards associated with the product:

May cause sensitisation by skin contact
May cause long term adverse effects in the aquatic environment

Safety recommendations:

Avoid contact with skin and eyes

16. OTHER INFORMATION

Text of R phrases listed in Section 2 (not applicable to the product - see section 15)

R22	Harmful if swallowed
R36	Irritating to the eyes
R38	Irritating to the skin
R43	May cause sensitisation by skin contact
R65	Harmful: may cause lung damage if swallowed
R53	May cause long-term adverse effects in the aquatic environment

General:

The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the 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.

UK 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)
Manual Handling Operations Regulations 1992 (SI1992:2793)
Storage of Packaged Dangerous Substances, HS(G)71
The Environmental Protection (Duty of Care) Regulations 1992 (SI1992:2839)
The Waste Management Licensing Regulations 1994 (SI1994:1056)
Special Waste Regulations 1996 (SI1996:972)
PG6/16 Secretary of State's Guidance Note on Printworks