



Material Safety Data Sheet

RODINAL DEVELOPER (Concentrate)

Infosafe no. 1AGD0 **Issue Date** August 2002 **Status** ISSUED by AGFA

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company

Name Agfa-Gevaert Ltd (ABN 12 000 404 722)
Address 372-394 Whitehorse Road Nunawading, Vic 3131
Australia

Emergency

Tel. 1800 638 556 (24h)
Tel/Fax Tel: (03) 9264 7711 Fax: (03) 9264 7891

Other

Information New Zealand:
Agfa-Gevaert NZ Ltd
3 Argus Place
Glenfield, Auckland
Tel: 09 443 5500
Emergency Tel: 0800 154 666 (24h)
International Emergency Tel: 0061 410 606 944

IDENTIFICATION

Product Name RODINAL DEVELOPER (Concentrate)

Proper**Shipping**

Name POTASSIUM HYDROXIDE SOLUTION

Other Names **Name****Product Code**

RODINAL DEVELOPER 10 x 3-12L

BVL2E

RODINAL DEVELOPER 6 x 13-50L

BVL3G

UN Number 1814

DG Class 8

Packing

Group II

Hazchem

Code 2R

Poisons

Schedule S5

Product Use Photographic black and white film developer. Concentrate.

Physical Data

Appearance Colourless liquid.

Melting Point	< 0°C
Boiling Point	> 100°C
Vapour Pressure	2.300 Pa at 20°C
Specific Gravity	1.383
Flash Point	Not applicable.
Flamm. Limit LEL	Not applicable.
Flamm. Limit UEL	Not applicable.
Solubility in Water	Miscible at all ratios.

Other Properties

Autoignition Temp.	Not applicable.
pH Value	14.00
Odour	Slight inherent odour.
Form	Liquid

Ingredients

Ingredients	Name	CAS	Proportion
	Potassium sulfite	10117-38-1	30-40 %
	Potassium Hydroxide	1310-58-3	2-5 %
	Potassium bromide	7758-02-3	1-5 %
	4-Aminophenol	123-30-8	1-5 %
	EDTA-alkali salt		0.5-1 %
	Water	7732-18-5	(To 100%)

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed	May cause strong irritation or burns to the mouth, throat and stomach.
Acute - Eye	Strong irritation or corrosive effects to the eyes.
Acute - Skin	Strong irritation or burns to the skin.
Acute - Inhaled	Irritation to respiratory system possible.
Chronic	Harmful. Possible risk of irreversible effects.

First Aid

Swallowed	If swallowed, rinse the mouth and throat with water. If symptoms persist see a doctor.
Eye	If in eyes, hold eyes open and flood with water for at least 15 minutes. If

symptoms persist see a doctor.

Skin If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. If symptoms persist, see a doctor.

Inhaled If affected by inhalation of fumes or vapours, move patient to fresh air. If symptoms persist see a doctor.

First Aid Facilities Washroom and eyewash facilities should be available.

Advice to Doctor

Advice to Doctor No special requirements. Treat according to symptoms.

Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits Potassium hydroxide:
Time Weighted Average (TWA) - 2mg/m³
Short Term Exposure Limit (STEL) - Peak limitation 2mg/m³

Eng. Controls This product is not used in the concentrate form but is mixed with water to make a working solution prior to use. All activities involved in preparing the product for use should be carried out in a well-ventilated area. For the recommended engineering controls for the product in use, please see the Material Safety Data Sheet for the Working Solution.

Personal Protection

Eye Protection Avoid contact with the eyes. Where splashing is possible, wear splash proof safety goggles.

Glove Type Avoid contact with the skin. Wear gloves of impervious material such as neoprene, nitrile, PVC or natural rubber (latex).

Flammability

Fire Hazards Not combustible. Aqueous solution.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions Keep container tightly closed. Protect from direct sunlight. Store away from strong acids and oxidizing agents.

Proper Shipping Name POTASSIUM HYDROXIDE SOLUTION

EPG Number 8A1
IERG Number 37
Packaging Method 5.9.8RT8

Spills and Disposal

Spills & Disposal Wear personal protective equipment as described under 'Precautions for Use'.
Large Spills - Apply inert absorbent material such as sand or vermiculite to contain and soak up the spill. Avoid breathing vapours. Collect waste into a suitable container for disposal. Seal and label the container. Wash away residue with water or wipe up with a cloth.
Small Spills - Wash away with water or wipe up with a cloth.
Clean contaminated surfaces. Isolate and contain ruptured containers to prevent further spillage. Do not allow waste material to enter drains or waterways. Waste spillage should be disposed of in accordance with local regulations.

Disposal Used or unwanted product should be collected by a licensed waste disposal company for treatment and/or disposal in accordance with local regulations. Do not discharge to sewerage system without approval.

Fire/Explosion Hazard

Hazardous Decomposition or Byproducts When heated to high temperatures, the product does not produce any known hazardous decomposition products.

Extinguishing Media Use extinguishing measures appropriate to local circumstances and surrounding environment.

Hazchem Code 2R

OTHER INFORMATION

Toxicology 4-Aminophenol - Acute oral LD50 (rat) 375mg/kg
Potassium hydroxide - Acute oral LD50 (rat) 273mg/kg

Information on Ecological Effects 4-Aminophenol:
Aquatic toxicity - 48h (carassius auratus, goldfish) 2mg/L

Risk Statement 4-Aminophenol
R40 Possible risk of irreversible effects.
Potassium hydroxide
R34 Causes burns.

Hazard Category Corrosive
Harmful

CONTACT POINT

Contact Hazardous Goods Controller
Tel: (03) 9264 7711
The information contained herein is based on our current knowledge and experience and is intended to describe the product in terms of its safety requirements. The information does not signify any warranty, expressed or implied with regard to the properties of the product.

End of MSDS
