

GENERAL INSTRUCTIONS

Only experienced and properly instructed persons should use this product. While in the container the product is a liquid mixture under pressure which turns to gas when released. The gas must be confined along with commodities being fumigated in a container or structure that is gastight or equipped with Siroflo[®]. The minimum standard for a gastight enclosure is one in which an increased or decreased pressure will decay to half the initial value in not less than 5 minutes with the structure filled to its normal capacity.

Fumigation for quarantine purposes where elimination of specific exotic pests is essential, may require different rates than those specified. These rates are specifically designed and administered by quarantine authorities.

Cylinders in use should be in open air or in force ventilated fume room.

Apply the required amount of ECO₂FUME[®] only with CYTEC approved high pressure metering equipment. Turn cylinder valve fully on.

Use extreme caution when handling this product which is a colourless, highly toxic gas with a garlic-like odour

Show following warning signs prominently at all approaches to every fumigation site:

"DANGER - POISON GAS - KEEP AWAY"

Protect by sealing or otherwise, sensitive electrical and electronic equipment (meters, switches, fire alarm systems etc.) containing copper/ copper alloy components. Phosphine corrodes copper-based material

Use of this product should not present a hazard to operators provided they work in accordance with the National Health and Medical Research Council's "Code of practice for the Fumigation of Grain with Phosphine."

VENTILATION

Ventilation of structures is complete when phosphine concentrations measured at appropriate locations in the enclosure and work area are below the exposure standard of 0.3 ppm. This may occur before the recommended ventilation time.

Structures containing treated commodities:

- a) Without through flow: 5 days
- b) With through flow and forced draught (flash proof fan) minimum of 24 hours

- c) With through flow and natural draught (wind): 2 - 5 days
- d) Well-sealed bunker storages: 2 hours, after removal of covering

Empty Buildings

- a) With through flow and forced draught (flash proof fan): 1 to 2 days
- b) With through flow and natural draught (wind): minimum 2 days

STORAGE AND DISPOSAL

Store ECO₂FUME[®] cylinders in a cool, well ventilated, locked area out of reach of children or unauthorised persons and away from dwellings.

DO NOT enter fumigation areas until the concentration of phosphine is below the exposure standard. The use of gas detection tubes or other measuring devices is recommended for monitoring gas levels in fumigation areas.

PRECAUTION

Keep animals, children and unauthorised persons away from the area under treatment until the concentration of phosphine is below the exposure standard.

Cylinders always remain the property of CYTEC and should be returned for refilling.

SAFETY DIRECTIONS

Can kill if inhaled
Avoid contact with eyes and skin.
DO NOT inhale vapour.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre **Phone: 131126**

Remove from contaminated area. Apply artificial respiration if not breathing.

MSDS

For additional information refer to Cytec MSDS #11037

APVMA Approval Number 50177/20/0205

WDT 402 3/00

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DANGEROUS POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



PHOSPHINE FUMIGANT
ACTIVE CONSTITUENT: 20g/kg PHOSPHINE

A non-flammable liquefied gas fumigant mixture for control of insect pests in produce or buildings. For use by licenced or other authorised personnel as per Direction for Use Table.

Contents: 31.0 kg net

CYTEC

CYTEC Australia Holdings Pty. Limited A.B.N. 45 081 148 629
Suite 1, Level 1, 21 Solent Circuit,
Baulkham Hills NSW 2153 Australia
Customer Service/Cylinder Return Phone: 1800 761 007
EMERGENCY PHONE: 1800 033 111

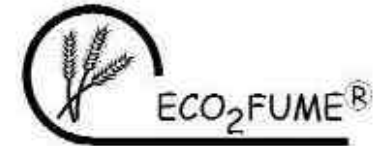


DIRECTIONS FOR USE

Restrains:

DO NOT fumigate inhabited buildings

DO NOT fumigate when commodity temperature is less than 15°C



MINIMUM APPLICATION RATE¹ IN g/m³ of ECO₂FUME[®] & MINIMUM CONCENTRATION² in ppm phosphine [PH₃]

to be maintained for the required period

Stored Product Pests	Commodity Temperature	Minimum Application Rate (g/m ³) & Minimum Phosphine Concentration (ppm)						
		2.0 g/m ³ 30 ppm	5.0 g/m ³ 70 ppm	10 g/m ³ 140 ppm	15 g/m ³ 215 ppm	25 g/m ³ 360 ppm	35 g/m ³ 500 ppm	50 g/m ³ 700 ppm
<i>Rhyzopertha dominica</i> present	15 – 19°C	na	25 days	16 days	14 days	13 days	12 days	10 days
	20 – 24°C	na	24 days	15 days	12 days	10 days	10 days	9 days
	25 – 29 °C	na	Do not fumigate	16 days	10 days	7 days	6 days	5 days
	30°C or higher	na	Do not fumigate	18 days	11 days	7 days	4 days	3 days
All other species And known resistant strains	15 – 19°C	na	18 days	16 days	14 days	13 days	13 days	12 days
	20 – 24°C	na	16 days	14 days	12 days	10 days	10 days	9 days *
	25 – 29 °C	na	12 days	10 days	8 days	7 days	6 days	5 days
	30°C or higher	na	11 days	6 days	5 days	4 days	4 days	3 days
<i>Bruchus pisorum</i> (Pea weevil)	15 – 20°C	na	21 days	na	na	na	na	na
	>20°C	21 days	na	na	na	na	na	na

CRITICAL COMMENTS

- Application rates are based on the internal volume of the enclosure, they apply equally to full, partly full or empty structures
- Concentration of phosphine within the commodity must be measured (at least once a day) to ensure that the required minimum is maintained throughout the commodity.
- Additional ECO₂FUME[®] should be added to maintain the minimum concentration.
- Temperatures specified are those within the commodity to be fumigated. Phosphine may not give adequate control at commodity temperatures less than 15°C.
- Additional times required for distribution to achieve uniform concentrations throughout the commodity are:
 - add one day for recirculation and for small bins less than 300 tonnes
 - add three days for surface application in structures greater than 300 tonnes and with height less than twice the width.

#SIROFLO (provides a constant concentration of PH₃ in unsealed storage), SIROFUME (an automatic top-up procedure for gas tight storage) & SIROCIRC (recirculated SIROFLO) are trademarks of CSIRO. These approaches require an additional day to distribute the gas throughout the commodity.

Cut Flower Pests: Adult & larval stages (not eggs) of aphids, thrips, light brown apple moth and other leaf-rolling moths, earwigs, psocids, two spotted mites.	Dosage rate: = 50 g/m ³ (700 ppm) Commodity temperature = 15°C min Exposure time @ 15°C - 15 hours
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na = not applicable
* = 10 days if resistant
Psocoptera present

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIOD: ALLOW A PERIOD OF 2 DAYS AFTER COMPLETION OF VENTILATION BEFORE USING THE TREATED COMMODITIES FOR HUMAN CONSUMPTION OR STOCK FEED.

CYTEC Industries Inc.
U.N. No. 3162
COMPRESSED
ECO2FUME®
formerly PHOSFUME
LIQUEFIED GAS, TOXIC. n.o.s.
(CONTAINS 20g/ Kg Phosphine in Carbon Dioxide)
ECO2FUME® is a trademark of CYTEC Industries Inc.
A.B.N. 45 081 148 629 1/1, 21 Solent Circuit, Baulkham Hills NSW 2153, Australia



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PRODUCT CODE
17841S02A12

SIZE
GE

CONT: **31.0 kg NET**

FILL BY WEIGHT ONLY

NRA Approval 50177
HIGH PRESSURE
IMPACT DAMAGE MAY

RISKS: ●VERY TOXIC BY INHALATION ●HEAT, FIRE OR IMPACT DAMAGE MAY CAUSE CYLINDER RUPTURE
●HEAVIER THAN AIR
SAFETY: ●KEEP LOCKED UP AND OUT OF REACH OF CHILDREN
●KEEP CONTAINER TIGHTLY CLOSED AND IN A WELL VENTILATED PLACE
●DO NOT BREATHE GAS ●WEAR SUITABLE PROTECTIVE CLOTHING
●DO NOT HEAT CYLINDER ●KEEP AWAY FROM COMBUSTIBLE MATERIAL
●USE NO OIL OR GREASE ON VALVE ●USE EQUIPMENT COMPATIBLE WITH CONTENTS AND PRESSURE ●OPEN VALVE SLOWLY AND SHUT AFTER USE ●REPLACE VALVE OUTLET CAP WHEN NOT IN USE ●USE STRICTLY AS DIRECTED ON NECK-TIE LABEL
●ADDITIONAL INFORMATION IS AVAILABLE IN CYTEC MSDS #11037
FIRST AID: ●IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL CONTACT DOCTOR OR POISONS INFORMATION CENTRE ●PHONE: 131126 ●IN EMERGENCY PHONE 1800 033 111

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