DO YOU USE ANY OF THESE PRODUCTS?

WHERE TO GET HELP

HESIS answers questions about 1-bromopropane and other workplace hazards and has many free publications available.

For information on workplace hazards:
(510) 622-4317. Please leave a message and your call will be returned.

For HESIS Publications:
(510) 622-4318. Call or visit our website www.hesis.berkeley.edu, or write to:
960 Addison Street, Suite 200, Oakland, CA 94612.


➤ Workplace Chemical Hazards in Reproductive Health: A Resource for Workers, Health and Safety Training and Patient Education. Explains how chemicals can affect reproduction.

➤ Workplace Factsheet on OSHA’s Hazard Evaluation System & Information Service (HEISIS): 1515 Clay Street, Suite 1901, Oakland, CA 94612.

➤ California Division of Occupational Safety and Health (Cal/OSHA) investigates workers’ complaints, makes enforcement inspections, and answers questions about workplace health and safety regulations. Complainants’ identities are kept confidential.

➤ Contact the California Environmental District office nearest to your workplace. Offices are listed in the blue government section near the front of the phone book, under “State Government / Occupational Health / Envir. Protection / Occupational Safety and Health / Enforcement,” or visit their website at www.dca.ca.gov/OSHD/districtsinfo.htm.

Other resources for employees may include your employer, your school, your company health and safety officer, your boss, or your company doctor.

CalOSHSA Consultation Service helps employers who want free, non-enforcement help to evaluate the workplace and improve the health and safety conditions. Employers can call (800) 965-4244.

Occupational health services can be found at:
• UC San Francisco/SFOrtho Occupational and Environmental Medicine Clinic: (415) 885-7585.
• UC Davis Occupational and Environmental Medicine Clinic: (530) 754-7073.
• UC Irvine Center for Occupational and Environmental Health: (949) 824-6461.
• UC San Diego Center for Occupational and Environmental Medicine: (619) 543-8716.

If you need further information about workplace health or safety hazards and protective measures, call HESIS at (510) 622-4317. You can visit our website at www.hesis.berkeley.edu or write to HESIS, 1515 Clay Street, Suite 1901, Oakland, CA 94612.

California Department of Health Services
350 Market Street, Suite 1900
Oakland, CA 94612
(510) 622-4315
www.dca.ca.gov/OSHD/services.htm

1-bromopropane can harm the reproductive system and the nervous system. It causes deformity in both male and female test animals, and harms the developing fetus when tested in pregnant animals. 1-bromopropane can damage the nerves, causing weakness, pain, numbness, and paralysis. It can soon be tested in animals to find out if it can cause cancer, as many similar chemicals do. The effects of 1-bromopropane on human health have not been well studied. However, a few human case reports suggest that 1-bromopropane can harm the nervous system. 1-bromopropane is a being tested for occupational use and it is not regulated to protect workers, consumers, or the environment.

How to find out if you are working with 1-bromopropane

1-bromopropane is a solvent. It might be used wherever there is a need to dissolve fats, waxes, or resins. So far, two of its main uses are in drycleaning and spray adhesives. It is being considered for use in drycleaning and for many other uses as a replacement for other organic solvents that damage the upper ozone layer.

Your employer must tell you if you are working with 1-bromopropane, and must train you to use it safely (California Code of Regulations, Title 8, Sections 3003 and 3149). If you think you may be exposed to 1-bromopropane on the job, ask to see the Material Safety Data Sheet (MSDS) for the products you are using. The MSDS for a product that contains 1-bromopropane must identify it in Section 8, by the CAS number 106-94-5. 1-bromopropane is also called n-propyl bromide. Some MSDSs do not fully describe the hazards of the product.

How 1-bromopropane enters your body

1-bromopropane enters your body when you breathe its vapor or drops spray in the air. Some can enter your body through your skin.

Your risk of health effects depends on the amount of 1-bromopropane that enters your body. That depends mainly on the amount (and concentration) of 1-bromopropane in the air, your skin contact, and how long you are exposed.

How 1-bromopropane can affect your health

The toxic effects of 1-bromopropane in humans have not yet been well studied. Because it is a recently introduced chemical, most information comes from animal testing, not from experience with human use.

In most of the animal tests, the animals breathed 1-bromopropane in the air. However, it can also absorb 1-bromopropane through your skin.
**REPRODUCTIVE SYSTEM**

1-Bromopropane damages the reproductive systems in male and female rats and mice. It damages the testis, epididymis, seminal vesicles, and ovaries. It reduces testosterone levels, causing a reduction in sperm production in male rats and mice.

**Skin**

1-Bromopropane interactions with the outer skin, again causing redness. Skin irritation and dermatitis (dry, rough, red, cracked skin) may occur from prolonged skin contact. The liquid can dissolve the skin and cause dermatitis (dry, rough, red, cracked skin) to the extent of perhaps 30 ppm. Like other organic solvents, the liquid can dissolve the skin and cause dermatitis (dry, rough, red, cracked skin). There have been reports of exposure levels likely to be found in the workplace.

**CANCER**

1-Bromopropane will soon be tested to see whether it can cause cancer. Many similar chemicals, such as dichloromethane/methylene chloride (DME), do cause cancer. In some tests, but not in others, 1-bromopropane has caused genetic mutations. Chemicals that cause mutations often can cause cancer.

**Inhalation**

Even though there is no Permissible Exposure Limit (PEL) for 1-Bromopropane on page 45 of Cal/OSHA Title 8, Section 1104, employers to protect you from being exposed to chemicals at levels that harm your health. See www.dir.ca.gov/title8/5144.html. The amount of 1-bromopropane in the air in your workplace can and should be measured. However, until 1-bromopropane is regulated by Cal/OSHA, there may be no legal standard to compare the results to.

**Legal exposure limits**

1-Bromopropane is a virtually unregulated chemical. Cal/OSHA does not have a Permissible Exposure Limit (PEL) for workplace exposure. Neither the U.S. Environmental Protection Agency (U.S. EPA) nor Cal/OSHA has a benchmark or standard for the environment. U.S. EPA is considering approving 1-bromopropane as an alternate to chemicals that damage the ozone layer in the upper atmosphere.

**Recommended exposure limits**

HSE recommends that workplace exposure be limited to about 3 ppm in order to protect against the symptoms of breathing difficulty. HSE also recommends a skin notation to require protection against skin contact exposure.

**Eyes, nose, throat, and skin**

1-Bromopropane damages the mucous membranes in the eyes, nose, and throat. Chemicals that cause vomiting can also irritate the respiratory tract. 1-Bromopropane can be absorbed through the skin.

**Liver**

Very high exposures may harm the liver. We don’t know whether there is any risk to the liver from exposure levels likely to be found in the workplace.

**Nervous system**

1-Bromopropane can damage the nerves in the arms, legs, and body. There is evidence that 1-bromopropane can damage the brain itself. Animal tests have found these effects with exposure levels as low as 400 ppm. Case reports show that similar effects can occur in humans.

**Skin**

1-Bromopropane can damage the skin through the skin.

**Eyes, nose, throat, and skin**

1-Bromopropane is irritating to the eyes, nose, and throat. at exposure levels of perhaps 40 ppm. Like other organic solvents, the liquid can dissolve the skin and cause dermatitis (dry, rough, red, cracked skin). It can also be absorbed through your skin through the skin.

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**HOW TO REDUCE YOUR EXPOSURE**

**LIVER**

Very high exposures may harm the liver. We don’t know whether there is any risk to the liver from exposure levels likely to be found in the workplace.

**REPRODUCTIVE SYSTEM**

1-Bromopropane damages the reproductive systems in both male and female mammals, if it damages the sperm, testes, prostate, epididymis, and seminal vesicles, and reduces testosterone levels, causing a reduction in sperm counts. Avoiding unnecessary exposure and using personal protective equipment interfere with the entire cycle, again causing sterility. A brominated substance was also found to affect the offspring of animals exposed during pregnancy. Some of these effects were noted to occur at levels as low as 200 parts per million (200 ppq) in mice, and possibly even at 40 ppq.

**NERVOUS SYSTEM**

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1-Bromopropane can cause long-lasting nervous system damage and blood effects may be appropriate if you work with 1-bromopropane.

**Skin**

1-Bromopropane is irritating to the eyes, nose, and throat, at exposure levels of perhaps 40 ppq. Like other organic solvents, the liquid can dissolve the natural protective oils on your skin and cause dermatitis (dry, red, cracked skin). It can also be absorbed into your natural protective oils on your skin and cause dermatitis (dry, red, cracked skin). It can also be absorbed into your natural protective oils on your skin and cause dermatitis (dry, red, cracked skin). It can also be absorbed into your natural protective oils on your skin and cause dermatitis (dry, red, cracked skin). It can also be absorbed into your natural protective oils on your skin and cause dermatitis (dry, red, cracked skin). It can also be absorbed into your natural protective oils on your skin and cause dermatitis (dry, red, cracked skin).

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**RESPIRATORY SYSTEM**

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**How to reduce your exposure**

1. **Personal protective equipment**
   - Use appropriate clothing, such as chemical-resistant gloves, to prevent skin contact exposure. Chemicals that cause cancer are often caused by skin contact.
   - Use respiratory protection. Use a respirator with a high-efficiency particulate arrestance filter to reduce exposure in the workplace. If you must use 1-bromopropane, use a respirator with a high-efficiency particulate arrestance filter.
   - Use ventilation. Make sure that there is good ventilation in the workplace. In spraying operations, use exhaust ventilation to reduce 1-bromopropane levels. In spraying operations, use exhaust ventilation to reduce 1-bromopropane levels.

2. **Engineering controls**
   - Use ventilation systems to remove 1-bromopropane from the workplace. Use exhaust ventilation to reduce 1-bromopropane levels. Use exhaust ventilation to reduce 1-bromopropane levels.
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3. **Work practice and housekeeping**
   - Use the least amount of 1-bromopropane possible. Use the least amount of 1-bromopropane possible. Use the least amount of 1-bromopropane possible.

4. **Medical surveillance and monitoring**
   - Use medical surveillance and monitoring. Use medical surveillance and monitoring. Use medical surveillance and monitoring.

5. **Information on handling and storage**
   - Use information on handling and storage. Use information on handling and storage. Use information on handling and storage.

6. **Safe disposal**
   - Use safe disposal. Use safe disposal. Use safe disposal.

7. **Emergency and preparedness**
   - Use emergency and preparedness. Use emergency and preparedness. Use emergency and preparedness.

8. **Cal/OSHA**
   - Use Cal/OSHA. Use Cal/OSHA. Use Cal/OSHA.

9. **Environmental Protection Agency (U.S. EPA)**

10. **Conclusion**
    - Use conclusion. Use conclusion. Use conclusion.
DO YOU USE ANY OF THESE PRODUCTS?

Abalo
Allbatra V05-3000
Alpha Metal VaporEdge 1000
Ancono Misty Safety Solvent 2000
Ceramicobe Overglazes 6, 8, 9, or 18
Ecoline Hypergrave
Ecoline Triqen
Ecoline: Ecoline-A; Ecoline-CW
Hygroscopic NPB: Hygroscopic ASC
K-Grip 501 Spray Adhesive
Lokcal
LPS Instant Super Degreaser II
Micro Care PowerClean Solvent
NPB Heavy Duty Cleaner Degreaser
NPB Heavy Duty Contact Cleaner
NPB Heavy Duty Flux Remover
Nye Lubricants Fluorosolvent 507
Nye Lubricants Nyetact 502H-20
NPB Heavy Duty Contact Cleaner
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Petrofim Solvent
Petrofim NPB Stabilizer Booster
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These are some products with MSDSs showing that they contain 1-bromopropane. However, products like these can change their ingredients quite often. Be sure to check the current MSDS for whatever products you're using.

WHERE TO GET HELP

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For HESIS Publications: (510) 822-4318. Call, or visit our website www.dhs.ca.gov/ohb, or write to HESIS, 1613 Clay Street, Suite 1000, Oakland, CA 94612.

• Workplace Chemical Hazards in Reproductive Health: A Resource for Women Health and Safety Training and Patient Education. Explains how chemicals can affect reproduction.
• PNP/Pactrol: Care Guide. Lists chemicals, and medical guidelines on workplace hazards including chemicals, repetitive motion, and infectious diseases. Visit our website, call, or write for the list.

California Division of Occupational Safety and Health (Cal/OSHA) investigates workers’ complaints, makes enforcement inspections, and answers questions about workplace health and safety regulations. Complainants’ identities are kept confidential. Contact the Cal/OSHA Enforcement District officer nearest to your workplace. Officers are hired in the blue government uniform and can be identified by the phone book, under “State Government / Occupational-Environmental / Occupational Safety and Health / Enforcement,” or visit their website at www.dca.ca.gov/DOSH/districtoffices.htm.

Other resources for employees may include your employer, your union, your company health and safety officer, your doctor, or your company policy.

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• UC Irvine Center for Occupational and Environmental Health: (949) 824-6461.
• UC San Diego Center for Occupational and Environmental Medicine: (858) 471-6126.

How to find out if you are working with 1-bromopropane

1-Bromopropane is a solvent. It might be used wherever there is a need to dissolve, clean, or coat. So far, two of its main uses are in degreasing and spray adhesive. It is being considered for use in dry cleaning and for many other uses as a replacement for other organic solvents that damage the upper ozone layer.

Your employer must tell you if you are working with 1-bromopropane, and must train you to use it safely (California Code of Regulations, Title 8, Sections 3003 and 5149). If you think you may be exposed to 1-bromopropane on the job, ask to see the Material Safety Data Sheet (MSDS) for the products you are using. The MSDS for the product that contains 1-bromopropane must identity it in Section 2, by the CAS number 106-54-5. 1-Bromopropane is also called n-propyl bromide. Some MSDSs do not fully describe the hazards of the product.

How 1-bromopropane enters your body

1-Bromopropane enters your body when you breathe its vapor or drops of spray in the air. Some can enter your body through your skin. Your risk of health effects depends on the amount of 1-bromopropane that enters your body. That depends mainly on the amount (concentration) of 1-bromopropane in the air, your skin contact, and how long you are exposed.

How 1-bromopropane can affect your health

The toxic effects of 1-bromopropane in humans have not yet been well studied. Because it is a recently introduced chemical, most information comes from animal testing, not from experience with human use. In most of the animal tests, the animals bred with 1-bromopropane in the air. However, you can also absorb 1-bromopropane through your skin.

1-Bromopropane can harm the reproductive system and the nervous system. It causes death in both male and female test animals, and harms the developing fetus when tested in pregnant animals. 1-Bromopropane can damage the nerves, causing weakness, pain, numbness, and paralysis. It will soon be tested in animals to find out if it can cause cancer, as many similar chemicals do. The effects of 1-bromopropane on human health have not been well studied. However, a few human case reports suggest that 1-bromopropane can harm the nervous system. 1-Bromopropane is a new solvent intended to replace solvents like trichloroethylene and some freons that damage the upper ozone layer. HESIS is issuing this hazard alert because 1-bromopropane is being considered for widespread use and it is not regulated to protect workers, consumers, or the environment.

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DO YOU USE ANY OF THESE PRODUCTS?

WHERE TO GET HELP

1-Bromopropane (n-Propyl Bromide)

1-Bromopropane can harm the reproductive system and the nervous system. It causes deformities in both male and female test animals, and harms the developing fetus when used in pregnant animals. 1-Bromopropane can damage the lungs, causing stimulation, pain, coughing, and paralysis. If it is inhaled, it can harm your eyes and skin. There is also a risk of cancer, as many similar chemicals do. The effects of 1-bromopropane on human health have not been well studied. However, a few human case reports suggest that 1-bromopropane can harm the nervous system. 1-Bromopropane is a solvent intended to replace solvents like trichloroethane and some Freons that damage the upper ozone layer. 1-Bromopropane is being considered for classification as a hazardous air pollutant and has been regulated to protect workers, consumers, and the environment.

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