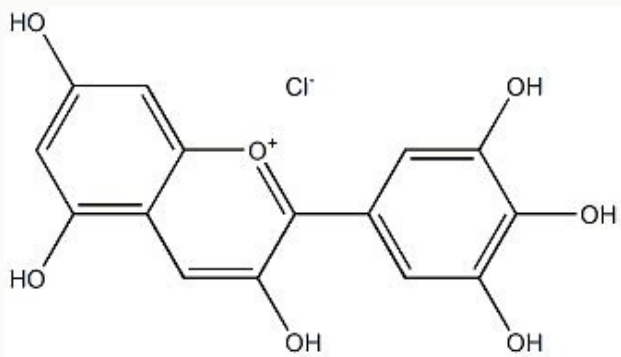


I'm not robot!



Msd for dry battery. What products need a safety data sheet. The sds must list hazardous ingredients.

MSDS is an acronym for Material Safety Data Sheet. A MSDS is a written document that outlines information and procedures for handling and working with chemicals. The document may also be called a safety data sheet (SDS) or product safety data sheet (PSDS). The MSDS format is considered to be an older data sheet style. The United States adopted the Safety Data Sheet to replace the Material Safety Data Sheet in 2012. The SDS is not appreciably different from the MSDS, but the information is presented in consistent manner and is internationally standardized. This is so users can quickly and easily find relevant facts. Current MSDS documents contain physical and chemical property information, potential hazard information, protective measures, storage and transport precautions, emergency procedures including how to handle spills or accidental exposure, disposal recommendations, and manufacturer contact information. MSDS stands for Material Safety Data Sheet. MSDS is an older format that should be replaced by SDS, which is an internationally standardized Safety Data Sheet. MSDS sheets contain basically the same information as SDS, but the language and organization of the information may be different. Both MSDS and SDS are data sheets that describe the properties and hazards of a chemical. SDS are written in English, follow a prescribed format, and use the European Union standard symbols for hazards. The MSDS or SDS for a chemical, compound, or mixture targets workers who deal with a substance in an occupational setting or those needing to transport/store a chemical or deal with accidents. For this reason, the data sheet might not be easily read by a lay person. Some products with identical names and sold by the same company may have different formulations, depending on the country. Similarly, generic products may vary in composition from branded products. For this reason, one shouldn't assume safety data sheets are necessarily interchangeable between countries or products. A SDS follows the Globally Harmonized System of Classification and Labelling of Chemicals. This is a 16-section format, written in English, that contains the following facts in the specified order: SECTION 1: Identification of the substance/mixture and of the company/undertaking1.1. Product identifier 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.3. Details of the supplier of the safety data sheet 1.4. Emergency telephone number SECTION 2: Hazards identification2.1. Classification of the substance or mixture 2.2. Label elements 2.3. Other hazards SECTION 3: Composition/information on ingredients3.1. Substances 3.2. Mixtures SECTION 4: First aid measures4.1. Description of first aid measures 4.2. Most important symptoms and effects, both acute and delayed 4.3. Indication of any immediate medical attention and special treatment needed SECTION 5: Firefighting measures5.1. Extinguishing media 5.2. Special hazards arising from the substance or mixture 5.3. Advice for firefighters SECTION 6: Accidental release measure6.1. Personal precautions, protective equipment and emergency procedures 6.2. Environmental precautions 6.3. Methods and material for containment and cleaning up 6.4. Reference to other sections SECTION 7: Handling and storage7.1. Precautions for safe handling 7.2. Conditions for safe storage, including any incompatibilities 7.3. Specific end use(s) SECTION 8: Exposure controls/personal protection8.1. Control parameters 8.2. Exposure controls SECTION 9: Physical and chemical properties9.1. Information on basic physical and chemical properties 9.2. Other information SECTION 10: Stability and reactivity10.1. Reactivity 10.2. Chemical stability 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid 10.5. Incompatible materials 10.6. Hazardous decomposition products SECTION 11: Toxicological information11.1. Information on toxicological effects SECTION 12: Ecological information12.1. Toxicity 12.2. Persistence and degradability 12.3. Bioaccumulative potential 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 12.6. Other adverse effects SECTION 13: Disposal considerations13.1. Waste treatment methods SECTION 14: Transport information14.1. UN number 14.2. UN proper shipping name 14.3. Transport hazard classes) 14.4. Packing group 14.5. Environmental hazards 14.6. Special precautions for user 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code SECTION 15: Regulatory information15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2. Chemical safety assessment SECTION 16: Other information16.2. Date of the latest revision of the SDS In the United States, the Occupational Safety and Health Administration (OSHA) requires employers make SDSs available to all employees that handle potentially hazardous substances. Further, SDSs must be available to local fire departments, local emergency planning officials, and state planning officials. When a hazardous chemical is purchased, the supplier should send SDS information. While this may be printed, it's more often available online. Companies that supply hazardous chemicals typically use a service that writes and updates data sheets. If you don't have a data sheet for a chemical, you can look it up online. The University of California hosts the SDS Google search. The best way to search for a chemical is by its Chemical Abstracts Service Registry Number (CAS number). The CAS number is a unique identifier defined by the American Chemical Society and is used internationally. Be advised, some formulations are mixtures rather than pure chemicals. The hazard information of a mixture tends not to be the same as the hazards posed by individual components! Janelle, Donald G; Beuthe, Michel (1997). "Globalization and research issues in transportation." Journal of Transport Geography. Elsevier Science Ltd. U.S. Occupational Safety and Health Administration. "Hazard Communication Standard: Safety Data Sheets." A Material Safety Data Sheet (MSDS) is a written document that provides product users and emergency personnel with information and procedures needed for handling and working with chemicals. MSDSs have been around, in one form or another, since the time of the ancient Egyptians. Although MSDS formats vary somewhat between countries and authors (an international MSDS format is documented in ANSI Standard Z400.1-1993), they generally outline the physical and chemical properties of the product, describe potential hazards associated with the substance (health, storage cautions, flammability, radioactivity, reactivity, etc.), prescribe emergency actions, and often include manufacturer identification, address, MSDS date, and emergency phone numbers. A Material Safety Data Sheet or is a summary of the key properties of a substance and the hazards associated with its use. Material Safety Data sheets are not standardized, so it's important to consult one provided by a respected source. Two chemicals that have the same name may have very different MSDS sheets because the particle size of the product and its purity may significantly affect its properties. MSDS sheets should be kept in an easy-to-find location and made accessible to all persons dealing with chemicals. Although MSDSs are targeted at workplaces and emergency personnel, any consumer can benefit from having important product information available. An MSDS provides information about proper storage of a substance, first aid, spill response, safe disposal, toxicity, flammability, and additional useful material. MSDSs are not limited to reagents used for chemistry, but are provided for most substances, including common household products such as cleaners, gasoline, pesticides, certain foods, drugs, and office and school supplies. Familiarity with MSDSs allows for precautions to be taken for potentially dangerous products; seemingly safe products may be found to contain unforeseen hazards. In many countries, employers are required to maintain MSDSs for their workers, so a good place to locate MSDSs is on the job. Also, some products intended for consumer use are sold with MSDSs enclosed. College and university chemistry departments will maintain MSDSs on many chemicals. However, if you are reading this article online then you have easy access to thousands of MSDSs via the Internet. There are links to MSDS databases from this site. Many companies have MSDSs for their products available online via their websites. Since the point of an MSDS is to make hazard information available to consumers and since copyrights don't tend to apply to restrict distribution, MSDS are widely available. Certain MSDSs, such as those for drugs, may be more difficult to obtain, but are still available upon request. To locate an MSDS for a product you will need to know its name. Alternate names for chemicals are often provided on the MSDS, but there is no standardized naming of substances. The chemical name or specific name is used most often to find MSDSs for health effects and protective measures. IUPAC (International Union of Pure and Applied Chemistry) conventions are used more often than common names. Synonyms are often listed on MSDSs. The molecular formula may be used to locate a chemical of known composition. You can usually search for substance using its CAS (Chemical Abstracts Service) registry number. Different chemicals may have the same name, but each will have its own CAS number. Sometimes the easiest way to locate a product is to search by manufacturer. Products may be found using their US Defense Department NSN. A National Supply Number is a four-digit FSC class code number plus a nine-digit National Item Identification Number or NIIN. A trade name or product name is the brand, commercial, or marketing name the manufacturer gives the product. It does not specify what chemicals are in the product or whether the product is a mixture of chemicals or a single chemical. A generic name or chemical family name describes a group of chemicals with related physical and chemical properties. Sometimes an MSDS will list only the generic name of a product, although in most countries laws require that chemical names also be listed. An MSDS might appear to be intimidating and technical, but the information is not intended to be difficult to understand. You might simply scan an MSDS to see if any warnings or hazards are delineated. If the content is difficult to understand there are online MSDS glossaries to help define any unfamiliar words and often contact information for further explanations. Ideally you would read an MSDS before obtaining a product so that you could prepare proper storage and handling. More often, MSDSs are read after a product is purchased. In this case, you can scan the MSDS for any safety precautions, health effects, storage cautions, or disposal instructions. MSDSs often list symptoms that might indicate exposure to the product. An MSDS is an excellent resource to consult when a product has been spilled or a person has been exposed to the product (ingested, inhaled, spilled on skin). The instructions on an MSDS do not replace those of a health care professional, but can be helpful emergency situations. When consulting an MSDS, keep in mind that few substances are pure forms of molecules, so the content of an MSDS will depend on the manufacturer. In other words, two MSDSs for the same chemical may contain different information, depending on the impurities of the substance or the method used in its preparation. Material Safety Data Sheets are not created equal. Theoretically, MSDSs can be written by pretty much anyone (although there is some liability involved), so the information is only as accurate as the author's references and understanding of the data. According to a 1997 study by OSHA "one expert panel review established that only 11% of the MSDSs were found to be accurate in all of the following four areas: health effects, first aid, personal protective equipment, and exposure limits. Further, the health effects data on the MSDSs frequently are incomplete and the chronic data are often incorrect or less complete than the acute data". This doesn't mean that MSDSs are useless, but it does indicate that information needs to be used with caution and that MSDSs should be obtained from trustworthy and reliable sources. The bottom line: Respect the chemicals you use. Know their hazards and plan your response to an emergency before it happens!

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