

Safety Data Sheets for Hazardous Chemicals

Information Sheet

November 2023

In accordance with the REACH Regulation (Regulation (EC) No. 1907/2006) as amended by Regulation (EU) 2020/878, a safety data sheet (SDS) should be supplied with any hazardous chemical. Safety data sheets (SDS's) provide useful information on chemicals, describing the hazards the chemical presents, and giving information on handling, storage and emergency measures in case of an accident.

Over the coming years, SDSs may include further information on safe handling, in the form of exposure scenarios. REACH requires users of hazardous chemicals to follow the advice on risk management measures given in the exposure scenario, where provided.

The Safety Data Sheet must contain the following 16 headings:

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|---|--|-----------------------------|
| 1. Identification of the substance/mixture and of the company/undertaking | 6. Accidental release measures | 12. Ecological information |
| 2. Hazards identification | 7. Handling and storage | 13. Disposal considerations |
| 3. Composition/information on ingredients | 8. Exposure controls/personal protection | 14. Transport information |
| 4. First aid measures | 9. Physical and chemical properties | 15. Regulatory information |
| 5. Fire-fighting measures | 10. Stability and reactivity | 16. Other information |
| | 11. Toxicological information | |

Safety Data Sheets must be provided for:

- Chemicals classified as hazardous in accordance with Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP)
- Substances meeting the criteria as persistent, bio-accumulative and toxic (PBT) or very persistent very bio-accumulative (vPvB) to the environment in accordance with REACH.
- Substances which appear on ECHA's Candidate List of substances of very high concern (SVHC) for a reason other than either of the two points above
- Mixtures (upon request of the downstream user/distributor) which themselves are not classified under CLP but which contain at least one substance that is:
 - classified as hazardous to health or the environment above concentration limits set out in Article 31(3) of REACH
 - a PBT or vPvB at a concentration $\geq 0.1\%$ w/w
 - on the Candidate List of SVHCs at a concentration $\geq 0.1\%$ w/w for a reason other than either of the two points above
 - assigned an EU limit value for exposure at the workplace (OELV)

A Safety Data Sheet must be:

- prepared by a competent person
- in an official language(s) of Member State where chemical is being placed on the market
- in the required 16 heading format
- specific to the chemical
- clear and understandable
- provided free of charge, either on paper or electronically
- provided no later than at the time of first delivery
- updated when new information on the chemical becomes available or when an authorisation is granted or refused or a relevant restriction is imposed under REACH
- provided to everyone who has received the chemical during the previous 12 months upon update or revision
- dated and the pages numbered.



What information should be taken account of in a Safety Data Sheet?

There is an obligation on users of chemicals to take measures to protect both humans and the environment from any hazards associated with the chemicals. Therefore, it is important that the information provided in the safety data sheet is taken into account and used to prepare a chemical risk assessment for the workplace. Information on chemicals in the workplace must be provided to all employees and the SDS is a useful tool in communicating the hazards of these chemicals and the measures of protection to be taken when using them.

Each section of the SDS contains specific information relating to the chemical.

Section 1 contains contact details of the person/company responsible for supplying the chemical, the uses of the chemical, as well as the telephone number to contact in case of an emergency. Additional requirement to add details for the most recent supplier in section 1.3.

Section 2 gives details on the hazards of the chemical and the potential effects and symptoms resulting from use. This will help in the assessment of risks to the health of workers and the environment. The information in this section must be consistent with the information on the label.

Section 3 If the chemical is a mixture, this section will give information on the hazards of each of the individual substances in the mixture. Acute Toxicity Estimates, Specific Concentration Limits and M-factor's must be listed in section 3 for each substance where applicable.

Section 4 describes the necessary first aid measures to be taken in case of an accident.

Section 5 gives specific information on fighting a fire caused by the chemical, including the most suitable extinguishing media and protective equipment.

Section 6 describes what actions need to be taken if there is an accidental release of the chemical.

Section 7 contains details on how to handle and store the chemical safely and the specific uses of the chemical.

SAFETY DATA SHEET				
CleanIt			Date of Issue: June 2018	
1. Identification of the substance/mixture and of the company/undertaking				
1.1 Product identifier: Product identifier: ABC XYZ chemical Trade Name: Industrial Cleaner Synonyms: CleanIt				
1.2 Relevant identified uses of the substance or mixture and uses advised against: Used as a cleaner				
1.3 Details of the supplier of the safety data sheet: Company name: Acme Cleaning Ltd., 1 Acme Lane, Ind. Estate, Dublin 123 Telephone number: 01 234 5678 E-mail of responsible person for SDS: tom.acme@cleaning.com				
1.4 Emergency telephone number Emergency telephone number: 01 123 4567 (Poisons Centre number)				
2. Hazards Identification				
2.1 Classification of the mixture: Eye Irritant 2, H319 Skin Irritant 2, H315				
2.2 Label elements:				
<div style="display: flex; align-items: center;"> <div> <p>Labelling according to Regulation (EC) No 1272/2008:</p> <p>Pictogram: Signal Word: Warning</p> <p>Hazard Statements: H319 Causes serious eye irritation H315 Causes skin irritation</p> <p>Precautionary Statements: Precautionary statements as assigned More precautionary statements More precautionary statements Precautionary statements</p> </div> </div>				
2.3 Other Hazards: There are no known other hazards				
3. Composition/Information on Ingredients				
Name	EC No.	CAS No.	Content	Classification
ABC	123-456-0	1234-56-7	<1%	Skin Corr. Cat. 1B H314
XYZ	123-789-0	1234-56-0	>99%	Skin irrit. 2 H315, Eye irrit. 2 H319
4. First Aid Measures				
4.1 Description of First Aid Measures: Get medical attention if any discomfort continues.				
4.2 Most important symptoms and effects, both acute and delayed:				
Inhalation: Remove victim immediately from source of exposure.				
Ingestion: Rinse mouth thoroughly. Drink plenty of water. Get medical attention immediately				
Skin Contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Use suitable lotion to moisturise skin. Get medical attention if irritation persists				
Eye Contact: Promptly wash eyes with plenty of water while lifting the eye lids. Remove any contact lenses				
4.3 Indication of any immediate medical attention and special treatment needed: Get medical attention if any discomfort continues.				
5. Fire-Fighting Measures				
5.1 Extinguishing Media This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.				
5.2 Special Hazards arising from the substance or mixture Fire causes formation of toxic gases.				
5.3 Advice for Fire Fighters Fire fighters must wear the following: Equipment to be worn				

Section 8 gives details of the steps needed to reduce exposure, e.g. ventilation and the personal protective equipment (PPE) necessary to protect health.

Sections 9 provide detailed information on the physical and chemical properties - New improved wording regarding information requirements and clarification on the measurement units to be used. In section 9.1 the order and wording of physical properties changed e.g., 'physical state' instead of 'appearance', with separate point for 'colour' with odour and odour threshold merged. Reasons for omissions of data to be clearly indicated.

Section 10 contains details of any hazardous reactions that may occur if the chemical is used under certain conditions.

Section 11 and 12 provide detailed information on the physical/chemical, toxicological and ecological properties of the chemical

Section 13 explains how the chemical should be disposed of correctly.

Section 14 contains information relating to the transportation of the chemical. The insertion of transport information is compulsory in Section 14 and includes: UN number or ID number; UN proper shipping name; transport hazard class(es); packing group; environmental hazards, and special precautions for the user in connection with transport, for all relevant modes of transport.

Section 15 contains details on relevant EU/national legislation.

Section 16 gives any other information relevant to the chemical e.g. training advice, full text of hazard statements etc.

In addition, SDSs for substances or for mixtures containing substances that have been registered under REACH are required to include:

- Registration numbers where appropriate
- Exposure Scenarios including any risk management measures required, in an Annex to the SDS for hazardous substances registered at >10 tonnes/year.

What should be done when a Safety Data Sheet is received?

- ✓ Ensure that there are 16 headings.
- ✓ Check that it is in English and is clear and concise.
- ✓ Check that it is dated and any revision date and details of revisions are provided.
- ✓ Ensure that it is dated after 31st December 2022 and in compliance with Annex II of REACH as amended by Regulation (EU) 2020/878.
- ✓ Ensure that the details on the chemical's label are exactly as given in section 2 of the SDS
- ✓ Contact the supplier and request an updated version if not satisfied with the information provided.
- ✓ Use the information to prepare chemical risk assessments, inform employees of the hazards of the chemical, the protective measures to be taken when using it and the measures to be taken in an emergency.
- ✓ Store the SDS, either as a hard copy or electronically, in a place that is known to, and accessible to, all employees. A record of the SDS's must be kept for a minimum of 10 years.
- ✓ It is advisable to keep a chemical inventory of all chemicals on site and SDSs are a useful tool in helping to keep account of all substances in the workplace.
- ✓ It is also good practice to regularly check the SDSs to ensure that multiple or out-of-date copies are not being stored.
- ✓ If there is an Exposure Scenario annexed to the SDS, ensure the risk management measures relevant to the use of the substance are in place.

Safety of PPE	
6. Accidental Release Measures	
6.1 Personal precautions, protective equipment and emergency procedures	Use appropriate personal protective equipment (PPE) for handling. Ensure adequate ventilation/respiratory protection control of dust prevention eye contact.
6.2 Environmental Precautions	Do not release into the ground or into water courses. To prevent release, place container with damaged seal up.
6.3 Methods and materials for containment and cleaning up	Use appropriate materials for containment and cleaning up. Wash thoroughly after dealing with a spillage. Absorbent materials. Dry sand or earth and place into containers. Flush area clean with lots of water. Be aware of environmental pollution.
6.4 Reference to other sections	
7. Handling and Storage	
7.1 Precautions for safe handling	Avoid spraying, skin and eye contact. Include containment measures, local and general ventilation, measures to prevent release and the measures required to prevent the environment from being contaminated. When using do not eat, drink or smoke.
7.2 Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well-ventilated place. Keep in original container. Check regularly for leakage. Avoid. Avoid any incompatible materials.
7.3 Specific end uses	Use only for the intended purpose.
8. Exposure Controls/Personal Protection	
8.1 Control Parameters	Exposure limit values OSHA PEL: 10 mg/m ³ TLV: 10 mg/m ³
8.2 Exposure controls	Occupational exposure controls Respiratory Equipment NIOSH N95 Hand Protection Protective gloves should be used if there is a risk of direct contact or splash. Use protective gloves made of Rubber Eye Protection Other types of chemical safety goggles: CE marked Other Protection Wash face thoroughly to prevent any possibility of skin contact. Provide eyewash station.
8.3 Hygiene Measures	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
8.4 Environmental exposure controls	Prevent release into the environment. Store in original container unless CE/CLP's labels necessary.
9. Physical and Chemical Properties	
9.1 Information on basic physical and chemical properties	APPEARANCE: White powder COLOUR: Colourless ODOUR: Odourless SOLUBILITY: Insoluble in water, miscible with water. BOILING POINT (°C): 100 MELTING POINT (°C): 100 RELATIVE DENSITY APPROX. (20 °C): 1.200 PH: 7 9.2 Other Information: No other important safety parameters.
10. Stability and Reactivity	
10.1 Reactivity	No known hazardous reactions.
10.2 Chemical Stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	No hazardous reactions.
10.4 Conditions to avoid	Avoid contact with acids. Reacts strongly with concentrated acids and chloro-hydrocarbons.
10.5 Incompatible materials	
10.6 Hazardous decomposition products:	

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11. Toxicological Information	
11.1 Information on toxicological effects	Acute toxicity: None Serious eye damage/irritation: Direct contact may cause effects ranging from moderate eye irritation to severe chemical burning. Skin corrosion/irritation: No acute irritation. Respiratory or skin sensitisation: Irritating large quantities may cause irritation to the gastrointestinal tract. STOT single exposure: May irritate the throat and respiratory tract. Coughing, sneezing, and shortness of breath may occur. STOT repeated exposure: May cause irritation. Cardiogenicity: No special attention has not been established. Germ Cell Mutagenicity: No testing required. Reproductive toxicity: No testing required. Aspiration hazard: Some individuals may exhibit infant contact dermatitis.
12. Ecological Information	
12.1 Toxicity	Dangerous for the environment if discharged into watercourses. The product is not expected to be hazardous to water body biota.
12.2 Persistence and degradability	Water solubility: Insoluble
12.3 Bioaccumulative potential	No bioaccumulative potential
12.4 Mobility in soil	No mobility in soil
12.5 Results of PBT and vPvB assessment	No PBT or vPvB
12.6 Other adverse effects	
13. Disposal Considerations	
13.1 Waste Treatment methods	The packaging must be empty (strip free, when broken). Shower of waste and residues in accordance with local safety requirements. Recover and reclaim or recycle, if practical.
14. Transport Information	
14.1 UN number:	1304
14.2 UN Proper shipping name:	IRG 1304
14.3 Transport Hazard Class(es):	1304 14.4 Packing group: III
14.5 Environmental hazards:	No
14.6 Special Precautions for user:	No other information
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Not applicable
15. Regulatory Information	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:	Regulation (EC) No 1276, Directive 2012, REACH Regulation, CLP Regulation
15.2 Chemical safety assessment	
16. Other Information	List of R phrases/Hazard statements: R302 R312 R332 R360 R410 R411 R412 R413 R414 R415 R416 R417 R418 R419 R420 R421 R422 R423 R424 R425 R426 R427 R428 R429 R430 R431 R432 R433 R434 R435 R436 R437 R438 R439 R440 R441 R442 R443 R444 R445 R446 R447 R448 R449 R450 R451 R452 R453 R454 R455 R456 R457 R458 R459 R460 R461 R462 R463 R464 R465 R466 R467 R468 R469 R470 R471 R472 R473 R474 R475 R476 R477 R478 R479 R480 R481 R482 R483 R484 R485 R486 R487 R488 R489 R490 R491 R492 R493 R494 R495 R496 R497 R498 R499 R500 R501 R502 R503 R504 R505 R506 R507 R508 R509 R510 R511 R512 R513 R514 R515 R516 R517 R518 R519 R520 R521 R522 R523 R524 R525 R526 R527 R528 R529 R530 R531 R532 R533 R534 R535 R536 R537 R538 R539 R540 R541 R542 R543 R544 R545 R546 R547 R548 R549 R550 R551 R552 R553 R554 R555 R556 R557 R558 R559 R560 R561 R562 R563 R564 R565 R566 R567 R568 R569 R570 R571 R572 R573 R574 R575 R576 R577 R578 R579 R580 R581 R582 R583 R584 R585 R586 R587 R588 R589 R590 R591 R592 R593 R594 R595 R596 R597 R598 R599 R600 R601 R602 R603 R604 R605 R606 R607 R608 R609 R610 R611 R612 R613 R614 R615 R616 R617 R618 R619 R620 R621 R622 R623 R624 R625 R626 R627 R628 R629 R630 R631 R632 R633 R634 R635 R636 R637 R638 R639 R640 R641 R642 R643 R644 R645 R646 R647 R648 R649 R650 R651 R652 R653 R654 R655 R656 R657 R658 R659 R660 R661 R662 R663 R664 R665 R666 R667 R668 R669 R670 R671 R672 R673 R674 R675 R676 R677 R678 R679 R680 R681 R682 R683 R684 R685 R686 R687 R688 R689 R690 R691 R692 R693 R694 R695 R696 R697 R698 R699 R700 R701 R702 R703 R704 R705 R706 R707 R708 R709 R710 R711 R712 R713 R714 R715 R716 R717 R718 R719 R720 R721 R722 R723 R724 R725 R726 R727 R728 R729 R730 R731 R732 R733 R734 R735 R736 R737 R738 R739 R740 R741 R742 R743 R744 R745 R746 R747 R748 R749 R750 R751 R752 R753 R754 R755 R756 R757 R758 R759 R760 R761 R762 R763 R764 R765 R766 R767 R768 R769 R770 R771 R772 R773 R774 R775 R776 R777 R778 R779 R780 R781 R782 R783 R784 R785 R786 R787 R788 R789 R790 R791 R792 R793 R794 R795 R796 R797 R798 R799 R800 R801 R802 R803 R804 R805 R806 R807 R808 R809 R810 R811 R812 R813 R814 R815 R816 R817 R818 R819 R820 R821 R822 R823 R824 R825 R826 R827 R828 R829 R830 R831 R832 R833 R834 R835 R836 R837 R838 R839 R840 R841 R842 R843 R844 R845 R846 R847 R848 R849 R850 R851 R852 R853 R854 R855 R856 R857 R858 R859 R860 R861 R862 R863 R864 R865 R866 R867 R868 R869 R870 R871 R872 R873 R874 R875 R876 R877 R878 R879 R880 R881 R882 R883 R884 R885 R886 R887 R888 R889 R890 R891 R892 R893 R894 R895 R896 R897 R898 R899 R900 R901 R902 R903 R904 R905 R906 R907 R908 R909 R910 R911 R912 R913 R914 R915 R916 R917 R918 R919 R920 R921 R922 R923 R924 R925 R926 R927 R928 R929 R930 R931 R932 R933 R934 R935 R936 R937 R938 R939 R940 R941 R942 R943 R944 R945 R946 R947 R948 R949 R950 R951 R952 R953 R954 R955 R956 R957 R958 R959 R960 R961 R962 R963 R964 R965 R966 R967 R968 R969 R970 R971 R972 R973 R974 R975 R976 R977 R978 R979 R980 R981 R982 R983 R984 R985 R986 R987 R988 R989 R990 R991 R992 R993 R994 R995 R996 R997 R998 R999

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Tips for formulators who prepare and supply SDSs to their customers

- ✓ Ensure that the SDS is in compliance with Annex II (as updated by Reg. (EU) No. 2015/830) of the REACH Regulation
- ✓ Ensure that the person responsible for compiling the SDS is competent, that is, that they have the relevant experience, knowledge and training
- ✓ Provide the e-mail details of the competent person in section 1, along with the company's address and telephone number and the emergency number
- ✓ Ensure that the SDS is specific to the chemical being supplied and not generic
- ✓ Ensure that the recipient of the chemical receives a SDS for that chemical free of charge, on paper or electronically, no later than at its time of delivery
- ✓ Where a mixture is not classified itself but contains hazardous substances, ensure a SDS is supplied upon request to downstream users or/ distributors
- ✓ Update the SDS without delay with any new information on the chemical and ensure an updated SDS is provided to customers if new information on the chemical becomes available which may affect risk management or if new information on hazards become available.
- ✓ Remember that the classification provided on the label of the chemical must be identical to that given in section 2 of the SDS.

What emergency number should be provided in section 1.4?

For any mixture classified as hazardous based on its health and/or physical effects and placed on the Irish market, it is obligatory for importers and formulators to include the National Poisons Information Centre (NPIC) emergency number in section 1.4. The NPIC emergency number cannot be used in Section 1.4 of an SDS until the notification process is complete. The notification process is explained on the NPIC website <http://www.poisons.ie> and [Manufacturers/Product-Registration](#)

When placing chemical products on the market in other EU Member States, the respective national poison centre number, where established, is required to be included in Section 1.4 of the SDS. Further information is available on the ECHA website under the [National Helpdesk contact details](#).

For mixtures which are not classified as hazardous (but do require a SDS based on the presence of hazardous ingredients), mixtures which are classified for environmental hazards only and for substances, reference to an emergency service belonging to the supplier or to a competent third-party provider of such a service must be made.

Where the supplier provides their own emergency information service, be it alone or in combination with an official advisory body or other provider, the necessary competence should be available. Any limitations on the official advisory body, the supplier's own, or any third party's services (opening hours or types of information that can be provided) must be indicated. Any limitations on the official advisory body, the supplier's own, or any third party's services (opening hours or types of information that can be provided) must be indicated.

Further information

The Chemicals web pages on the Health and Safety Authority's web site: https://www.hsa.ie/eng/your_industry/chemicals/legislation_enforcement/reach/safety_data_sheets/

Hazard labelling and packaging according to the CLP Regulation Information sheet on the HSA website: http://www.hsa.ie/eng/Publications_and_Forms/Publications/Chemical_and_Hazardous_Substances/CLP_info_sheet.pdf

Contact our Chemicals Helpdesk with any questions on 1890 289 389 or email chemicals@hsa.ie

Guidance on compilation of Safety Data Sheets available on the web site of the European Chemicals Agency (ECHA) at website www.echa.europa.eu or [link](#).

Further Information and Guidance: Visit our website at www.hsa.ie, telephone our contact centre on 1890 289 389 or email wcu@hsa.ie Use BeSMART, our free online risk assessment tool at www.besmart.ie Check out our range of free online courses at <https://hsalearning.ie>.

Further Information and Guidance:

Visit our website at www.hsa.ie, telephone our contact centre on 08018 289 389 or email contactus@hsa.ie

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An tÚdarás Sláinte agus Sábháilteachta
Health and Safety Authority