GHS



The Globally Harmonized System of Classification and Labeling of Chemicals

GHS Compliance Education for $H_2Orange_2^{\mbox{\tiny \ensuremath{\mathbb{R}}}}$ Concentrate 117TM

Label Elements, SDS Instructions and Examples



Overview

As of December 1, 2013

- Employees who come into contact with cleaning chemicals as part of his or her jobs must be trained on how to read GHS formatted labels and SDS.
- Why? To ensure employees have the information they need to better protect themselves from chemical hazards in the workplace during the transition period, it is critical that employees understand the new label and SDS formats.



Agenda

- SDS Education
- New SDS Elements You Need to Know
- GHS Label Elements
- How to Use & Understand Labels in the Workplace



SDS EDUCATION

SDS – Safety Data Sheets

- Formerly known as "MSDS"
- Standardized 16 section format
- ALL SDS will now be in the same format

Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS		
GHS		
1 Identification of the substance/mixture and of th	e company/undertaking	
1.1 Product identifier		
Trade name: EnvirOx™H2Orange2 Concentrate		
Article number: 117 1.2 Relevant identified uses of the substance or mixture a No further relevant information available.	ind uses advised against	
Application of the substance / the preparation Cleaning ag	jent/ Cleaner	
1.3 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: EnvirOx LLC P.O. Box 2327, 1038 E. Fairchild St. Danville, IL 61834-2327 USA Tel 1-217-442-8566		
1.4 Emergency telephone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585		
2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS07 Eve Infl. 2 H319 Causes serious eye irritation.		
Classification according to Directive 67/548/EEC or Direct	tive 1999/45/EC	
R36: Initiating to eyes. Information concerning particular hazards for human and The product has to be labelled due to the calculation proced for preparations of the EU" in the latest valid version. Classification system: The classification is according to the latest editions of the literature data. The classification is in accordance with the latest editions supplemented by information from technical literature and by in	lure of the "General Classification guideline EU-lists, and extended by company and s of international substances lists, and is	
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP re- Hazard pictograms	gulation.	
\wedge		
GH S07		



Protective gear needed



Safety Data Sheet Sections

- What is on an SDS? 1. Identification Product Identifier & Comp. Info Hazard(s) Identification Product Ingredients & HMIS, 2. NFPA ratings What is the chemical made of 3. **Composition Information First-Aid Measures** What to do in case of injury 4 **Fire-Fighting Measures** 5. How to put out a chemical fire Accidental Release Measures 6. In case of chemical spill Handling and Storage Proper storage conditions 7.
 - 8. Exposure Controls/PPE





Safety Data Sheet Sections (Cont.)

9. Physical/Chemical Properties pH, appearance, VOC, etc 10. Stability and Reactivity Materials to avoid with product 11. Toxicological Information Toxicity or irritant effects 12. Ecological Information Environmental impact How to dispose of product 13. Disposal Considerations 14. Transport Information Transportation precautions 15. Regulatory Information Organizations that approve it 16. Other Information Any other relevant information





Personal Protective Equipment (PPE)

Hazard	Task	PPE Required
Eye and Face: Chemical Splash	Chemical Mixing and Use	Safety Goggles/ Face Shield
Whole Body: Chemical Splash	Chemical Mixing and Use	Appropriate Clothing
Foot: Slips	Floor Maintenance	Shoes
Hand: Chemical Splash	Chemical Mixing	Gloves- optional
Respiratory: Inhalation	Not Expected to Be Significant Exposure	None



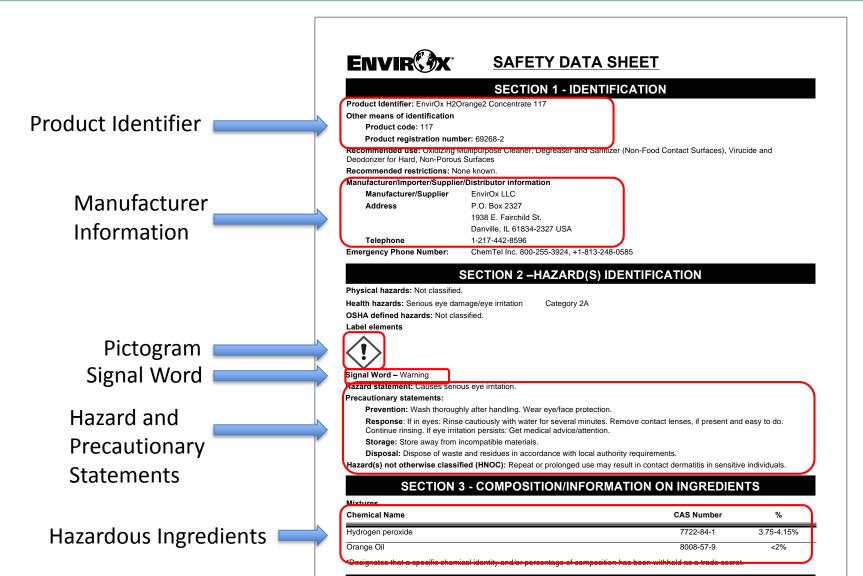


New SDS Elements You Need to Know

- Product Identifier
- Name, Address, and Phone of the Chemical Manufacturer, Distributor, or Importer
- Pictograms
- Signal Word
- Hazard Statements
- Precautionary Statements
- Hazardous Ingredients

SDS ELEMENTS

MSDS vs. SDS – What's New

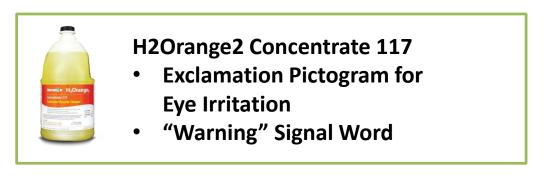


Hazard Identification – Pictogram and Signal Word

SECTION 2 –	HAZARD(S) IDENTIFICATION
Physical hazards: Not classified.	
Health hazards: Serious eye damage/eye irritation	Category 2A
OSHA defined hazards: Not classified.	
Label elements	
Signal Word – Warning	

Product pictograms are in Section 2 of all SDS.

Signal Word: "Caution" used to be a signal word option before GHS. Now the least hazardous signal word you can have under GHS is "Warning". The other signal word that is more hazardous is "Danger".



SDS FLEMENTS

Hazard Identification – SDS ELEMENTS Hazard and Precautionary Statements

Hazard statement: Causes serious eye irritation.

Precautionary statements:

Prevention: Wash thoroughly after handling. Wear eye/face protection.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): Repeat or prolonged use may result in contact dermatitis in sensitive individuals.

"Causes serious eye irritation" sounds scary. Should I be worried?

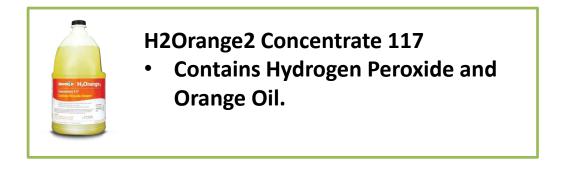
All concentrated chemicals carry some level of risk. Irritation essentially means that if this concentrate gets in your eye, it will hurt. The good news is that *it will <u>not</u> damage your eye* like some other chemicals may.



Hazard Identification – Hazardous Components

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	%
Hydrogen peroxide	7722-84-1	3.75-4.15%
Orange Oil	8008-57-9	<2%



SDS EDUCATION

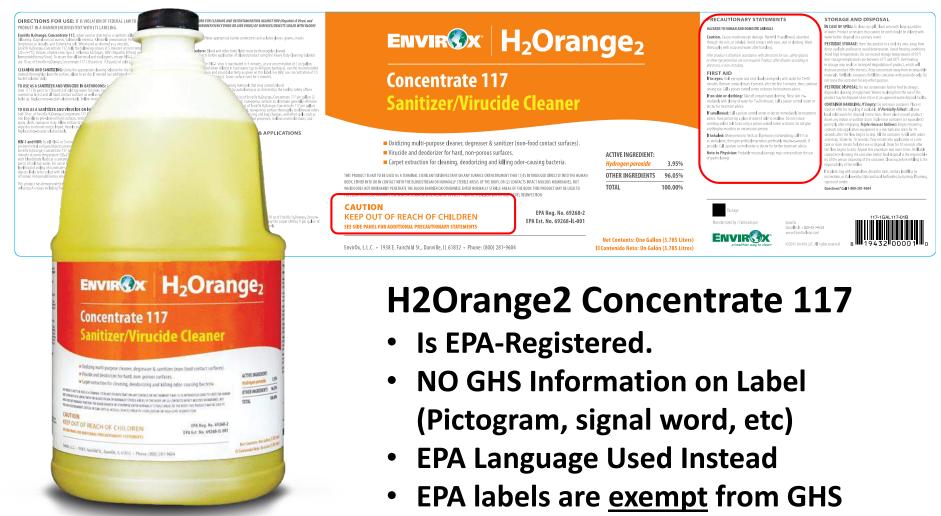


How Label Info is Related to SDS

Information that is on both the Label and SDS:

- Product Identifier
- Signal Word
- Pictograms
- Hazard Statements
- Precautionary statements
- Name, Address, and Phone of the Chemical Manufacturer, Distributor, or Importer

Hazard Identification – LABEL ELEMENTS H2Orange2 GHS Label Elements



requirements.

Hazard Identification – Typical GHS Label Elements

Formerly **Evolve02.** Same great formula! mmended Cleaning Methods Recomendado Limpiando los Método PRECAUTIONARY STATEMENTS CONSEJOS DE PRUDENCIA Daily maintenance cleaning: Using the appropriate cleaning solution (see "Cleaning Limpieza de mantenimiento diario: Usando la solución apropiada de limpieza (vea Lavarse concienzudamente tras la manipulación Wash thoroughly after handling. olution Dilutions & Applications") for the type of surface to be treated, pre-spray surface "Diluciones de las Soluciones de Limpieza & Aplicaciones") para el tipo de superficie que va se allow sit time for tougher sols, then wipe surface clean. Allow to air dry. If needed use tratada, primero rocie el liquido, délelo reposar un rato en superficies muy sucias y luego limple Wear eve protection. Llevar gafas de protección. additional solution. For best results, replace mop bucket solution frequ bien la superficie. Deje secar la superficie al aire libre. Si es necesario, puede usar más solución. ENVIR Sx Green Certified IF IN FYES: Rinse cautiously with water for several minutes. Remove EN CASO DE CONTACTO CON LOS OJOS: Adarar cuidadesam Use Green Certified Multi-Purpose Cleaner on any water-safe surface. Para maioras sacultados: cambia la colución de la coluta del transador frecuentemente intact Jenses, if present and easy to do. Continue rinsing. minutos. Quitar las lentes de contacto, si llevo y Uso Green Certified Multi-Purpose Cleaner en cualquier superficie apta resulta fácil. Sequir arlarando. Tile and grout or renovation deaning: Use 8 oz. EnvirOx Multi-Purpose Gener per gal IS EVE IDDITATION DEDCICTS: Gat madeal where para agua SI PERSISTE LA IRRITACIÓN OCULAR: Consultar a un médico. of cold tap water (16:1). Soak the surface by spraying or pouring diluted EnvirOx Multi-Purpos Contains: Water wtromen nermilde, readily biodegradable non-ionic Geaner onto the surface. Let sit for 10 minutes, then scrub by machine or hand. Rinse several Limpieza para renovación o para azulejos o lechada: Use 8 oz. de ErwirOx Contiene: Aqua, aqua colgenada, surfactantes y solventes ed surfactants and solvents, and fragrance. nd anionic plan **Multi-Purpose Cleaner** times with clean cold tap water to remove released soil. Multi-Purpose Cleaner por cada galón de agua fria (16:1). Remoje la superficie aplicando el roci hindenradables y basado en plantas facilmente no-iónicos y aniónico o aplique EnvirOx Multi-Purpose Cleaner d'Iuido directamente en la superficie. Déjelo reposar Qure Crafter lety glasses, gloves and protective work In food establishment facilities: Gean surfaces then rinse with potable water before us por 10 minutos y luego talle la superficie con máquina o a mano. Enjuaque varias veces con ag shen handling concentrate limpia para quitar la suciedad suelta Equipo Protector — Se recomienda Nevar quantes, ropa de trabaio CLEANING SOLUTION DILUTIONS AND APPLICATIONS **Super Concentrate** Use only acco to Jahal directions. Eailure to follow Jahal protectora y lentes de seguridad quando usando el concentrado. Light Duty 1/3 oz./gal of cold tap water (160:1): En facilidades de establecimiento de alimento: Limpie supe directions alt in surface damage or personal injury. aqua potable antes del uso. Utilice solamente según las indicaciones del rótulo. Si no WEN SEAL · Streak free glass, mirror and stainless steel cleaning se siquen las indicaciones del rótulo puede resultar en General floor cleaner for mopping & auto scrul DILUCIONES Y APLICACIONES DE LAS SOLUCIÓNES DE LIMPIEZA nes personales y daños en la superficie. Uso Ligero 4/s oz./ga de agua fria (160:1): Clean with the power of hydrogen peroxide. - Limpieza sin lineas en las ventanas y limpieza en el acero inovidable Leaves surfaces virtually residue-free. · Limpiador general para trapear y auto-tallador Heavy Duty 8 oz./gal of cold tap water (16:1): Uso Industria| 8 oz./ga| de agua fria (16:1): Safe to use on any water-safe surface. e container. Please recycle. This bottle is made from 25% post-con mer recycled plastic Cleans away dirt that may cause odor o reutilice el contenedor. Recicle por favor. Esta botella está hecha de 25% de plástico reciclado de post CERTIF Desengrasante general Tile & grout cleaning Geans mold & mildew stains Limpiza/Renovacion de baldosas y Limpia la suciedad que pueden industrial use only. Please dispose of waste materials in accordance to Product Safety Data Sheet WARNING provocar olores s Green Seal™ Standard GS+37 bas CAUSES SERIOUS EYE IRRITATION. ~ 6 effective performance, concentrated volume, minimized, recycled packaging and protective limits on: VOCs an 113-01B-GS SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS Danville, IL + 800-281-9604 IVIR www.EnvirOxClean.com lice with wall mounted or handheld disnenser. Can also be manually diluted El uso con montaje en pared o dispensador de mano. También se puede diluir manualmente Net Contents: One Gallon (3 785 Liters) C. • 1938 E. Fairchild St., Danville, IL 61832 • Phone: (800) 281-9604 El Contenido Neto: Un Galón (3.785 Litros) **PRECAUTIONARY STATEMENTS** Wash thoroughly after handling. WARNING Wear eye protection. CAUSES SERIOUS EYE IRRITATION. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS contact lenses, if present and easy to do. Continue rinsing. **IF EYE IRRITATION PERSISTS:** Get medical advice. EnvirOx, L.L.C. • 1938 E. Fairchild St., Danville, IL 61832 • Phone: (800) 281-9604

Non-EPA registered chemical labels should include the pictogram, signal word, hazard statements and precautionary statements on the label along with manufacturer information.

LABEL ELEMENTS



How to Use the Labels in the Workplace

- You have extra bottles of H₂Orange₂ Concentrate 117 in your facility. How do you ensure they are stored properly?
 - Read the product label under the "Storage and Disposal" section and follow proper storage instructions.
 - See Section 7 of the SDS: "Handling and Storage"
- **SITUATION**: An employee accidentally splashes chemical in their eyes and is in pain from it. What do you do?
 - If accidental chemical spray to the eyes happens, read (or have some else read if you are unable) the label under the "First Aid" section and take appropriate actions.
 - See Section 4 of the SDS: "First Aid Measures"



Additional Materials: OSHA Quick Cards and Briefs

http://www.osha.gov/dsg/hazcom/index.html

- Label QuickCard (English/Spanish)
- Pictogram QuickCard (English/Spanish)
- Safety Data Sheet QuickCard (English/Spanish)
- Safety Data Sheet OSHA Brief
- Label/Pictogram OSHA Brief

Have more questions? Check out the **EnvirOx Online GHS Center:** http://www.enviroxclean.com/ghs-globally-harmonized-system/



EnvirOx is GHS Ready!

- All EnvirOx products are currently GHS-Compliant.
- We were compliant months ahead of the manufacturer deadline!

Other GHS Deadlines:

Distributors must be fully compliant be December 1^{st,} 2015. This means after this date, they can not ship out products without a GHS-compliant label & SDS.

End users must have full GHS compliance by June 1^{st,} 2016. This means all chemicals used within a facility must have a GHS-compliant label & SDS by this date.



Questions?

Thank you!