See full document at http://www.sigmaaldrich.com/safety-center/globally-harmonized.html

Globally Harmonized System of Classification (GHS) introduction: The Globally Harmonized System was initiated at the UN Conference on the Environment and Development in Rio de Janeiro in 1992. It aims, amongst other goals, to harmonize the classification and the hazard communication elements of chemicals (labeling and safety data sheets). GHS harmonizes most classification criteria for supply and transportation agencies and is based on the intrinsic properties of substances. The first version became available in 2003. The expected draft of final ruling and adoption in the U.S should occur in 2011. In the mean time, old and new systems will be accepted during implementation to 2013.

Reason for Globally Harmonized System:

- Growing international trade
- Different requirements for labeling of chemicals
- Different classifications of identical products in different countries
- Requirement for an international safety standard

The advantages of the Globally Harmonized System of would be to provide a standardized approach to define health, physical and environmental hazards, classify hazards and communicate hazards in the workplace as well as be a guide for national chemical safety programs. It will also \provide unified communication to enhanced protection, improved international trade, and reduce cost and

How will the MSDS Change?

- Safety Data Sheets (SDS)
- GHS Format: 16 sections required, in specified order
- Reclassification based on GHS Criteria:
  16 physical hazard classes
  10 health hazard classifications
  3 environmental hazard classifications
- Use of symbols (9 pictograms)
- Use of 2 signal words “Danger” or “Warning”
- Use of Precautionary statements (116 individual and 33 combined statements)

Example of a Safety Data Sheet (SDS):

Safety Data Sheet

SiteHawk

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: FLAMMABLE MATERIAL

CHEMICAL NAME:	Mixture		
CAS NUMBER:	No Data Available	PRODUCT CODE:	1323
EINECS:	No Data Available	EU NUMBER:	No Data Available
MOLECULAR FORMULA:	No Data Available	MOLECULAR WEIGHT:	46.08

PRODUCT DESCRIPTION: CLEAR, COLORLESS LIQUID WITH FRAGRANT ODOR AND CHARACTERISTIC BURNING TASTE.

SYNONYMS: Ethanol

Company Identification
INDUSTRIAL DATA SYSTEMS
709 Nissan Drive
Smyrna, TN 37167
United States

WEB ADDRESS: http://www.sitehawk.com

Phone Numbers
General Information: 615-459-0064
Emergency: 800-555-5555

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

DANGER

Highly flammable liquid and vapor. Causes severe skin burns and eye damage. May be harmful if inhaled. May cause respiratory irritation and drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. Very toxic to aquatic life.

Prevention Avoid breathing dust, fume, gas, mist, vapours and/or spray. Wear protective gloves, clothing, and eye/face protection. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Ground and/or bond container and receiving equipment. Keep away from heat, sparks, open flames and/or hot surfaces - No smoking. Use explosion-proof electrical, ventilating and/or lighting equipment . Use only non-sparking tools. Avoid release to the environment.

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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of fire: Use appropriate media for extinction.

Storage/Disposal Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Store in a well-ventilated place. Keep container tightly closed. Store locked up.