



# Organizing the MSDS Chemical Inventory Part 1

Photos from actual field safety inspections in Northern California

Note: UN-GHS Regulations CFR 1910.1200 will change MSDS to SDS

## Case Study/Example

### Project detail:

Safer use of chemical based products can be enhanced if workers are allowed access to, and the opportunity to read MSDS first. Inspection reports filed over the last 4 years, indicate that most roofing-waterproofing companies do not have readily available MSDS, based at the work zone. And although MSDS are mandated by OSHA to be readily available (for workers on the job), many workers never get to see an MSDS.

### Example:

A worker inadvertently, picks up and drinks a bottle of soda, not realizing that another worker had filled the container with a flammable solvent for a job task. As workers try to deal with the sudden chemical ingestion emergency, an MSDS for the solvent cannot be found. Emergency room doctors need MSDS to help victims of poisoning or chemical toxicity.

### Common safety issues:

- # 1. Workers do not have access to MSDS
- # 2. Company does not have MSDS on jobsite
- # 3. Workers are not trained to read MSDS
- # 4. Many people think all MSDS are Online
- # 5. No MSDS access, documents in GC Office
- # 6. No MSDS Chemical Inventory
- # 7. Companies do not use MSDS in Tailgates
- # 8. Confusion between Tech Sheets & MSDS
- # 9. MSDS Chemical Inventory unorganized or containing unnecessary information.

**Note:**  
DO NOT file  
Technical Sheets  
with MSDS

## Sample of Trade Specific MSDS Courtesy of Firestone Building Products

### Firestone Building Products Company Material Safety Data Sheet

SECTION 1: PRODUCT IDENTIFICATION			
Product Name:	EPDM Bonding Adhesive BA-2004(T)		
Chemical Name / Synonym:	Polychloroprene Based Adhesive		
Chemical Family:	Polychloroprene		
24-Hour Emergency Phone:	(800) 424-0300 CHEMTREC		
Manufacturer's Name:	Firestone Building Products Company		
Manufacturer's Address:	250 West 96 <sup>th</sup> Street, Indianapolis, IN 46280		
NFPA Hazard Rating:	Health 2, Flammability 3, Reactivity 0		
HMSI Hazard Rating:	Health 2, Flammability 3, Reactivity 0		
SECTION 2: CHEMICAL COMPOSITION			
Chemical Name:	Common Name:	CAS #:	% (by wt)
Toluene	Toluol	108-88-3	34-44
			Exposure Limits:
			OSHA Cell 300 ppm
			TLV 20 ppm
Textile Spirits (Primarily Hexane)	None	64741-94-0	25-35
			Exposure Limits:
			OSHA Cell 300 ppm
			TLV 50 ppm (hexane)
Acetone	Dimethyl Ketone	67-64-1	5-10
			Exposure Limits:
			OSHA Cell 300 ppm
			TLV 500 ppm (hexane)
Nonhazardous as per 29 CFR 1910.1200	None	None	11-38
			Exposure Limits:
			ACGIH STEL 750 ppm
			None Established
SECTION 3: HAZARD IDENTIFICATION			
Primary Route of Exposure:	Inhalation, Skin Absorption		
Signs and Symptoms of Exposure:	Eye contact may cause severe eye irritation, redness, tearing and blurred vision. Prolonged or repeated skin contact may cause irritation, dermatitis and drying of the skin. Absorption through intact skin may contribute to an individual's overall exposure. Inhalation may cause respiratory system irritation and central nervous system depression (narcosis) characterized by headache, dizziness, muscular weakness and fatigue. May cause unconsciousness if exposure is excessive.		
Medical Conditions Aggravated by Exposure:	Exposure to this product may aggravate pre-existing skin and respiratory diseases. Individuals with neurological diseases should avoid exposure to Hexane. Toluene exposures have caused birth defects in laboratory animals when exposures were at concentrations that harmed the pregnant animal. The relevance of these findings to humans is uncertain.		

## Sample of Trade Specific Technical Info Sheet Courtesy of Firestone Building Products

**TECHNICAL INFORMATION SHEET**

**Firestone**  
BUILDING PRODUCTS

**EPDM Bonding Adhesive  
BA-2004 (T)**

Firestone Item Number: W563587052

**DESCRIPTION:**  
Firestone Bonding Adhesive BA-2004 (T) is a solvent based contact adhesive designed specifically for bonding Firestone RubberGuard<sup>SM</sup> membranes and flashings to approved substrates such as insulations, wood, metal, masonry and other acceptable substrates.

**METHOD OF APPLICATION:**

1. Surfaces to receive Firestone Bonding Adhesive BA-2004 (T) must be clean, smooth, dry, and free of sharp edges, loose and foreign materials, oil, grease, and other contaminants.
2. Stir the adhesive thoroughly to achieve a uniform mix with no sediment on the bottom and no marbling evident before and during use.
3. Apply Bonding Adhesive at about the same time to both the exposed underside of the sheet and the substrate to which it will be adhered so as to allow approximately the same drying time. Apply Bonding Adhesive evenly avoiding areas of accumulation.
4. Apply the Bonding Adhesive with a solvent resistant paint roller, and roll the adhesive onto the mating surfaces. When applying Bonding Adhesive, ensure complete uniform coverage of both surfaces that will be adhered. Care must be taken not to apply Bonding Adhesive over seam areas.
5. Bonding Adhesive BA-2004 (T) can be dispensed by means of Carlock Power Roller or Carlock Spray Equipment. Other equipment may be used as recommended by the manufacturer for application of this adhesive.

Note: Spray applied bonding adhesive requires back



**APPROVED POWER EQUIPMENT:**

- Carlock 2007 Roller Assembly
- 4 hp Honda Engine
- 6000 psi Pressure
- 25 gal pressure spray tank
- 25 gal for reservoir, 60-80 psi
- Up to 100 psi rating
- 2-1/2" x 30" spray hose with
- 2-1/8" roller head assembly



- Carlock 2120 Compressor Sprayer
- 10 hp Kohler Engine
- 4500 psi Rating
- 1000 psi Pressure
- 2000 P.S.I. Pressure (minimum)
- 3000 P.S.I. Pressure (maximum)
- 30' x 100' hose
- 2-1/2" x 30" spray hose
- 5 or 55 gal spray containers
- Carlock Spray Tank, 220 to 2000psi range
- Carlock 214 Ultra Machine
- 5.5 hp Honda Engine



# Organizing an MSDS Chemical Inventory

## Two Most Important Reasons to have MSDS readily available at the work zone



1. Workers can read and learn about chemical hazards, better protecting themselves, and responding more effectively to potential releases, spills or chemical emergencies.
2. Emergency Medical Providers use MSDS for important decisions at the hospital.



**S**etting up your company MSDS Chemical Inventory (trade specific) can be a fairly simple and straightforward process.

**Step # 1.** Establish the MSDS inventory via computer listed by **Chemical Name**.  
Always remember this rule: List all *chemical products in the MSDS Chemical Inventory exactly as they are (stated) on the product label.* (see examples below)



**MSDS / Safety Document Translation:** SAFETRAN, LLC, provides written document translation services since 1995. For assistance with your OSHA Hazard Communications Program (HazCom), or MSDS Translation, contact SAFETRAN, LLC (510) 894-0229, [daniel@safetransafety.com](mailto:daniel@safetransafety.com)

→  
M  
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D  
S  
→

<p><b>SUPER 77 MULTIPURPOSE ADHESIVE</b></p> <p>=====</p> <p>MSDS Safety Information</p> <p>=====</p> <p>FSC: 8040</p> <p>MSDS Date: 01/30/1997</p> <p>MSDS Num: CFWFQ</p> <p>LIIN: 00N077243</p> <p>Product ID: SUPER 77 SPRAY ADHESIVE, 62-4437-4930-4</p> <p>MFN: 02</p> <p>Cage: 1BY21</p> <p>Name: 3M GENERAL OFFICES</p> <p>Address: 3M CENTER</p> <p>City: ST PAUL MN 55144-1000</p> <p>Info Phone Number: 612-733-1110</p>
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**Step # 2. Include Manufacturer's Name (next to the chemical product name) see page 4**

# Sample MSDS Chemical Inventory

XYZ COMPANY

# MSDS CHEMICAL INVENTORY

All verbiage on  
this page  
important  
for MSDS  
Cover Sheet

**This inventory is currently under revision, manufacturers have been contacted to supply specific MSDS for chemical products. XYZ COMPANY will exercise due diligence in securing, providing and regularly updating this inventory.**

**DO NOT REMOVE MSDS  
PAGES FROM BINDER**

**Prepared by: Daniel J. O'Connell, CHMM, REA, B.Sc.**

*NOTE: To ensure compliance with the OSHA Hazard Communications Standard, make certain that all names of chemicals or chemical products entered into the MSDS Chemical Inventory are listed exactly as they are (stated) on the product label. To expedite MSDS identification, product names should be **Highlighted in Yellow** on page 1 of each individual MSDS*

*Above note (italics) may be removed from this page*

# XYZ COMPANY

## MSDS Chemical Inventory

**Name of Chemical**

**Manufacturer**

**A**

**ACETONE**

**FISHER SCIENTIFIC**

**B**

**C**

**D**

**E**

**FGH**

**IJK**

**L**

**M**

**METHYL ETHYL KEYTONE**

**PARKS CORPORATION**

**NOP**

**QR**

**S**

**SUPER 77 MULTIPURPOSE ADHESIVE**

**3-M**

**T**

**TOLUENE**

**AMOCO**

**UV**

**W**

**WD 40 AEROSOL**

**WD 40 COMPANY**

**XYZ**

Note: List each chemical by name, followed by Manufacturer. Keep all MSDS in binder sections (alphabetical order), remember to **highlight** each chemical name on page 1 of each MSDS for rapid identification in case of an emergency.

*Layout condensed to a 1 page format, most frequently, binders have dedicated sections for each alpha listing as required per inventory*

*Special Notes: information contained in this report was obtained from sources which to the best of our knowledge is authentic and reliable. SAFETRAN, LLC, its officers, owners, agents, representatives, make no guarantee of the results, and assume no liability in connect with either the information herein contained, or the safety suggestions herein made. Moreover, it cannot be assumed that every acceptable safety procedure is contained herein, or that abnormal or unusual circumstances may not warrant or require further or additional procedures.*

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## Organizando el Inventario Químico del MSDS

Las fotografías fueron tomadas durante las inspecciones de seguridad de los techos en el Norte de California

Note: UN-GHS Regulations CFR1910.1200 will change MSDS to SDS

### Caso Estudio/Ejemplo:

#### Detalles de Trabajo:

El uso seguro de productos químicos puede mejorar si los trabajadores tienen acceso, y la oportunidad de leer el MSDS en el principio. Reportes de Inspecciones de los últimos 4 años, indica que la mayoría de las compañías de techos de impermeabilización no tienen un **MSDS con acceso inmediato**, estacionado en la zona de trabajo. Y aunque el MSDS es requerido por OSHA a estar disponibles (para los trabajadores en el trabajo), muchos trabajadores nunca tienen la oportunidad de ver el MSDS.

#### Ejemplo:

Un trabajador sin querer, levanta y toma de una botella de soda, sin darse cuenta que otro trabajador había llenado la botella con un solvente inflamable para realizar un trabajo. Mientras los trabajadores trataban de manejar la emergencia repentina de la ingestión química, el MSDS de ese solvente no pudo ser hallada. Los doctores de Emergencia necesitan el MSDS para ayudar a las víctimas de envenenamiento o toxicidad química.

#### Problemas de Seguridad Comunes:

- # 1. Trabajadores no tienen acceso al MSDS
- # 2. Compañía no tiene el MSDS en el área de trabajo
- # 3. Trabajadores no están entrenados a leer el MSDS
- # 4. Muchos piensan que todos los MSDS están en el Internet
- # 5. No acceso al MSDS, documentos están con el Contratista General
- # 6. No Inventario Químico del MSDS
- # 7. Compañías no usan MSDS en las juntas de seguridad
- # 8. Confusión entre las Hojas Técnicas y el MSDS
- # 9. El Inventario Químico del MSDS esta desorganizado o contiene información innecesaria.

#### Nota:

NO archiven las Hojas Técnicas con MSDS.

### Ejemplo del MSDS Especifico al Oficio Cortesía de Firestone Building Products

Firestone Building Products Company Material Safety Data Sheet			
June 10, 2010	SECTION 1: PRODUCT IDENTIFICATION		Page: 1
Product Name:	EPDM Bonding Adhesive BA-2004(T)		
Chemical Name / Synonym:	Polychloroprene Based Adhesive		
Chemical Family:	Polychloroprene		
24-Hour Emergency Phone:	(800) 424-0300 CHEMTREC		
Manufacturer's Name:	Firestone Building Products Company		
Manufacturer's Address:	250 West 96 <sup>th</sup> Street, Indianapolis, IN 46280		
NFPA Hazard Rating:	Health 2, Flammability 3, Reactivity 0		
HMIS Hazard Rating:	Health 2, Flammability 3, Reactivity 0		
SECTION 2: CHEMICAL COMPOSITION			
Chemical Name:	Common Name:	CAS #:	% (by wt) Exposure Limits:
Toluene	Toluol	108-88-3	34-44 PEL 200 ppm OSHA Cell 300 ppm TLV 20 ppm
Textile Spirits (Primarily Hexane)	None	04741-94-0	25-35 PEL 500 ppm (hexane) TLV 50 ppm (hexane)
Acetone	Dimethyl Ketone	67-64-1	5-10 PEL 1000 ppm TLV 500 ppm ACGIH STEL 750 ppm
Nonhazardous as per 29 CFR 1910.1200.	None	None	11-38 None Established
SECTION 3: HAZARD IDENTIFICATION			
Primary Route of Exposure:	Inhalation, Skin Absorption		
Signs and Symptoms of Exposure:	Eye contact may cause severe eye irritation, redness, tearing and blurred vision. Prolonged or repeated skin contact may cause irritation, dermatitis and drying of the skin. Absorption through intact skin may contribute to an individual's overall exposure. Inhalation may cause respiratory system irritation and central nervous system depression (narcosis) characterized by headache, dizziness, muscular weakness and fatigue. May cause unconsciousness if exposure is excessive.		
Medical Conditions Aggravated by Exposure:	Exposure to this product may aggravate pre-existing skin and respiratory diseases. Individuals with neurological diseases should avoid exposure to Hexane. Toluene exposures have caused birth defects in laboratory animals when exposures were at concentrations that harmed the pregnant animal. The relevance of these findings to humans is uncertain.		

### Ejemplo de Hojas Técnicas Especificas al Oficio

**TECHNICAL INFORMATION SHEET**

**Firestone BUILDING PRODUCTS**

**EPDM Bonding Adhesive BA-2004 (T)**

Firestone Item Number: W563587052

**DESCRIPTION:**  
Firestone Bonding Adhesive BA-2004 (T) is a solvent based contact adhesive designed specifically for bonding Firestone RubberCare™ membranes and flashings to approved substrates such as insulations, wood, metal, masonry and other acceptable substrates.

**METHOD OF APPLICATION:**

- Surfaces to receive Firestone Bonding Adhesive BA-2004 (T) must be clean, smooth, dry, and free of sharp edges, loose and foreign materials, oil, grease, and other contaminants.
- Stir the adhesive thoroughly to achieve a uniform mix with no sediment on the bottom and no marbling evident before and during use.
- Apply Bonding Adhesive at about the same time to both the exposed underside of the sheet and the substrate to which it will be adhered so as to allow approximately the same drying time. Apply Bonding Adhesive evenly avoiding areas of accumulation.
- Apply the Bonding Adhesive with a solvent resistant paint roller, and roll the adhesive onto the mating surfaces. When applying Bonding Adhesive, ensure complete uniform coverage of both surfaces that will be adhered. Care must be taken not to apply Bonding Adhesive over seam areas.
- Bonding Adhesive BA-2004 (T) can be dispensed by means of Carlock Power Roller or Carlock Spray Equipment. Other equipment may be used as recommended by the manufacturer for application of this adhesive.  
Note: Spray applied bonding adhesive requires back

**APPROVED POWER EQUIPMENT:**

- Carlock 2047 Roller/Brush Dispenser
- 4 hp Honda Engine
- 25 gal pressure spray tank (20 gal for maximum 60-80 psi)
- Up to 100 psi rating
- 2" x 10" spray hoses with 3/4" male
- 2" x 10" roller head assemblies
- Carlock 2120 Compressor Sprayer
- 10 hp Kohler Engine
- 4500 psi Rating
- 5000 psi Maximum Flow (2000 P.S.I. Pressure minimum)
- Paint Connector #451
- Spout fitting up to 5 gal
- Up to 100 psi
- 4 or 50 gal spray containers
- Carlock Spray Hose, 225 to 20' minimum hose
- Carlock 214 Hose Machine
- 5.5 hp Honda Engine

**7. Starting at the fold, roll the previously coated portion of the sheet into the coated substrate slowly and evenly so as to minimize wrinkles.**

**8. To ensure proper contact, compress the bonded half of the sheet to the substrate with a stiff push broom using heavy pressure immediately after mating.**

**9. Contact your Firestone Technical Coordinator at 1-800-423-4511 for specific application information.**

## Dos Razones más Importantes para Tener un MSDS fácilmente disponibles en la zona de trabajo.



1. Los trabajadores pueden leer y aprender sobre los peligros químicos, protegiéndose mejor, y Respondiendo de manera más efectiva en posibles escapes, derrames, o emergencias químicas.
2. Proveedores de Servicios Médicos de Emergencia usan el MSDS para las decisiones importantes en el hospital.



**S**etting up your company MSDS Chemical Inventory (trade specific) can be a fairly simple and straightforward process.

Intencionalmente no está Traducido al Español

**Step # 1.** Establish the MSDS inventory via computer listed by **Chemical Name**.  
Always remember this rule: List all *chemical products in the MSDS Chemical Inventory exactly as they are (stated) on the product label.* (see examples below)



Titulo de Etiqueta:

Super 77 Multipurpose Adhesive

→  
M  
S  
D  
S  
→

SUPER 77 MULTIPURPOSE ADHESIVE

=====  
MSDS Safety Information  
=====

FSC: 8040

MSDS Date: 01/30/1997

MSDS Num: CFWFQ

LIIN: 00N077243

Product ID: SUPER 77 SPRAY ADHESIVE,  
62-4437-4930-4

MFN: 02

Cage: 1BY21

Name: 3M GENERAL OFFICES

Address: 3M CENTER

City: ST PAUL MN 55144-1000

Info Phone Number: 612-733-1110

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**Step # 2. Include Manufacturer's Name (next to the chemical product name) see page 4**



# Sample MSDS Chemical Inventory

XYZ COMPANY

# MSDS CHEMICAL INVENTORY

All verbiage on  
this page  
important  
for MSDS  
Cover Sheet

**This inventory is currently under revision, manufacturers have been contacted to supply specific MSDS for chemical products. XYZ COMPANY will exercise due diligence in securing, providing and regularly updating this inventory.**

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# XYZ COMPANY

## MSDS Chemical Inventory

**Name of Chemical**

**Manufacturer**

**A**

**ACETONE**

**FISHER SCIENTIFIC**

**B**

**C**

**D**

**E**

**FGH**

**IJK**

**L**

**M**

**METHYL ETHYL KEYTONE**

**PARKS CORPORATION**

**NOP**

**QR**

**S**

**SUPER 77 MULTIPURPOSE ADHESIVE**

**3-M**

**T**

**TOLUENE**

**AMOCO**

**UV**

**W**

**WD 40 AEROSOL**

**WD 40 COMPANY**

**XYZ**

Note: List each chemical by name, followed by Manufacturer. Keep all MSDS in binder sections (alphabetical order), remember to **highlight** each chemical name on page 1 of each MSDS for rapid identification in emergency.

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