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- In Aviation for over 39 years
- Air Force Master Instructor
- A&P
- Ten years Bombardier Hartford Service Center
- 11 years Safety-OSHA, EPA
- Active EMT volunteer



### OSHA: Use It, Don't Fear It – Key Takeaways



- Most OSHA requirements will mesh neatly into your business philosophy and goals.
- Safe and healthful leads to efficient and profitable.
- OSHA is a valuable tool, not a useless burden.
- OSHA can be a burden at times, but not nearly as big a burden as the accidents, injuries, and losses it prevents.





ORMALIZATION of EXCELLENCE

GLOBALJET

SERVICES



It's an Acronym

Not a Four Letter Word!







## CAUTION

IF YOU THINK OSHA IS A SMALL TOWN IN WISCONSIN YOU'RE IN **TROUBLE** 

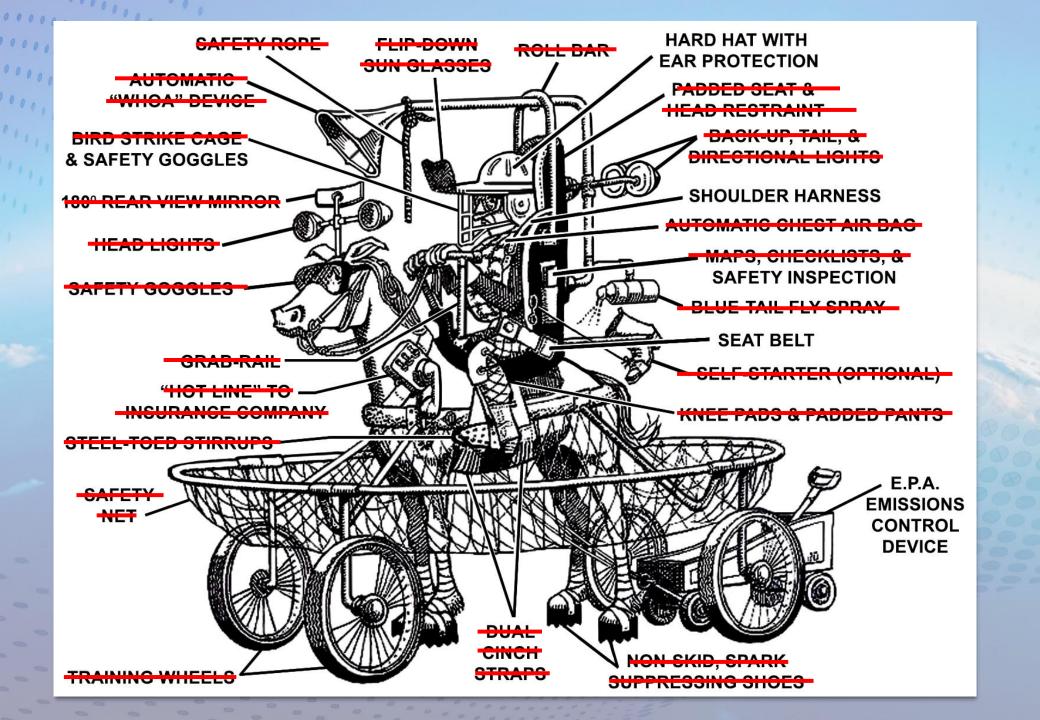
BRADY MS1134

Overbearing

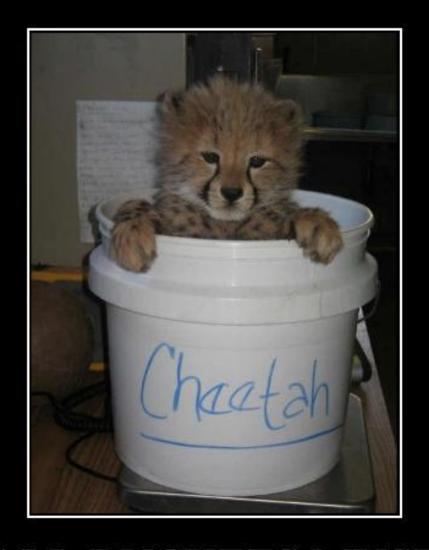
Sadistic

Heartless

Adversarial



Roll Bar 3 Point 10 Gallon **OSHA** Belts Crash Helmet Approved Goggles **Bull Rider** Rear-view Seat **Mirror** Air Bag Shoulder Pads Padded Dash Elbow Pads Knee Pads **Grip** Safety Nerf → Spurs -Horns

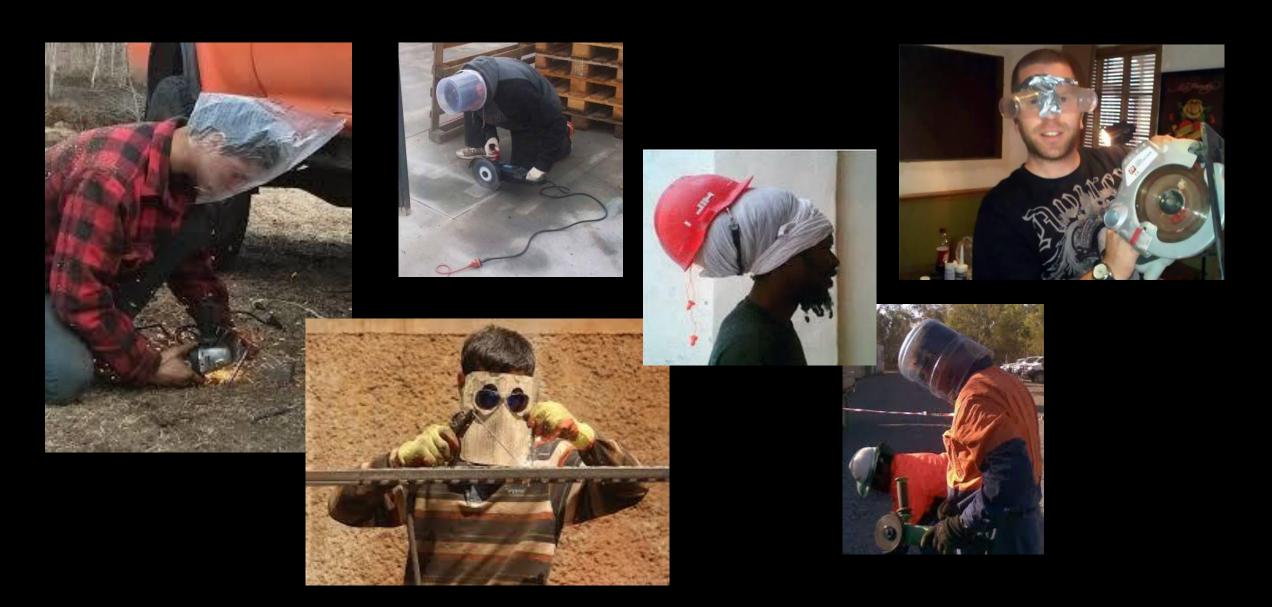


-Also, without a Lid the contents may escape.

ALL BUCKETS MUST BE CLEARLY LABELED



### **SAFETY First?**



















## 14,300 DEATHS per year





## Why Does

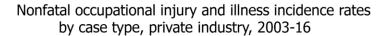
## SI-IIA

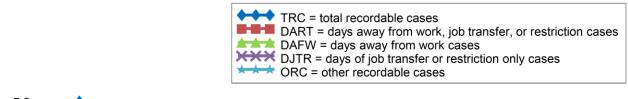
Exist?

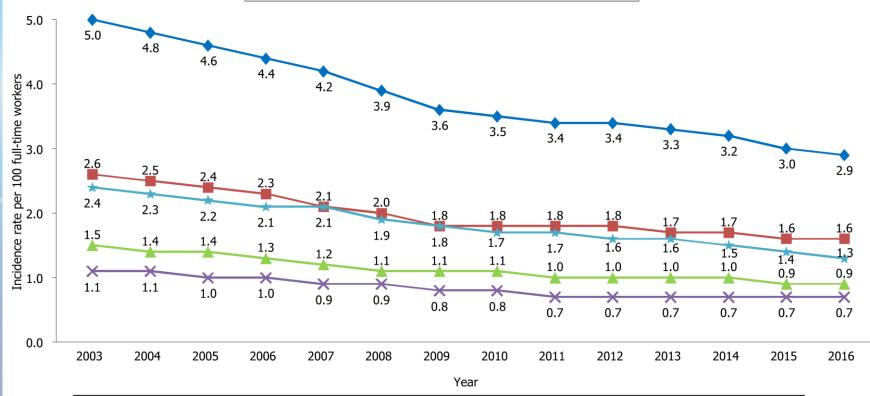
Does

# SI-III

Work?



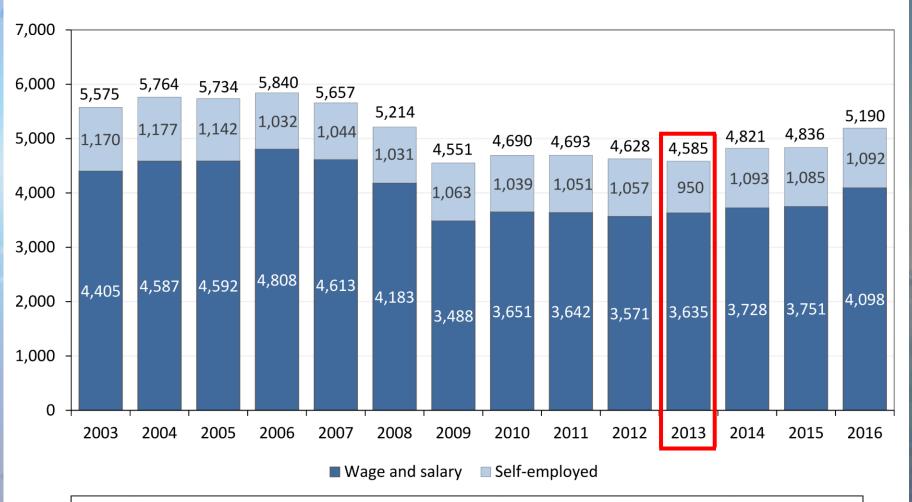




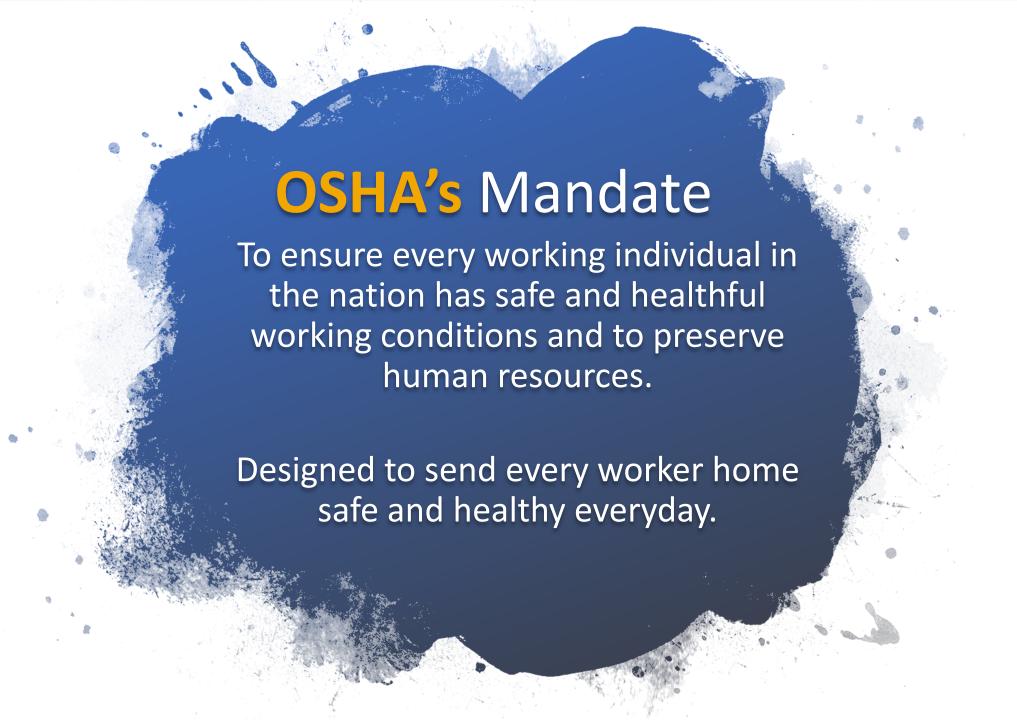
The total recordable cases (TRC) incidence rate among private industry employers declined to 2.9 cases per 100 full-time equivalent workers in 2016—down from 3.0 cases in 2015. Incidence rates for days away from work, job transfer, or restriction (DART) cases, for days away from work (DAFW) cases, and for days of job transfer or restriction only (DJTR) cases all remained unchanged from 2015, while the rate for other recordable cases (ORC) declined to 1.3 cases in 2016—down from 1.4 cases in 2015.

View data

#### Number of fatal work injuries by employee status, 2003–16



- A total of 5,190 workers died from an occupational injury in 2016.
- This number increased by 7 percent from 2015 and is the highest count since 2008.
- Self-employed workers have consistently accounted for around one-fifth of fatal work injuries.



## What can OSHA do for us?

Fewer accidents / illnesses =

Less stress

#### The Job

Safer, easier, and more productive

### The Organization

More efficient, less waste

A safety mindset enhances all of the above as well as Profitability.



Safe and healthful leads to efficient and profitable.

OSHA is a valuable tool, not a useless burden.

OSHA can be a burden at times, but not nearly as big a burden as the accidents, injuries, and losses it prevents.

#1 Priority?

Safety

## #1 Priority?

Busibatetyuccess

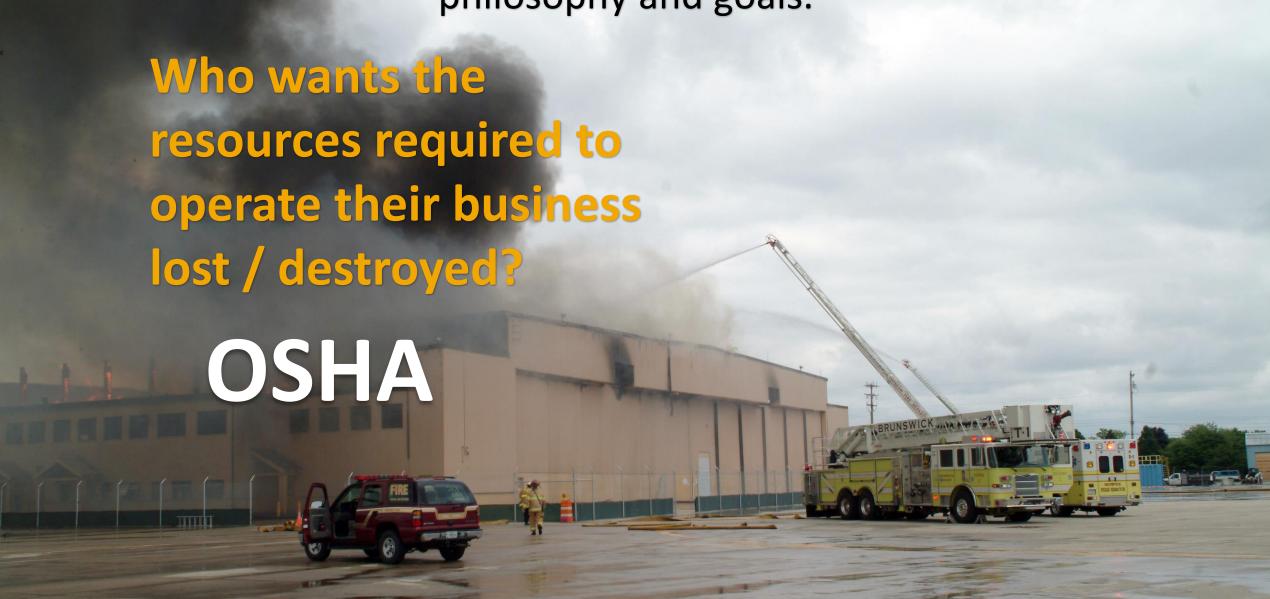
Safety

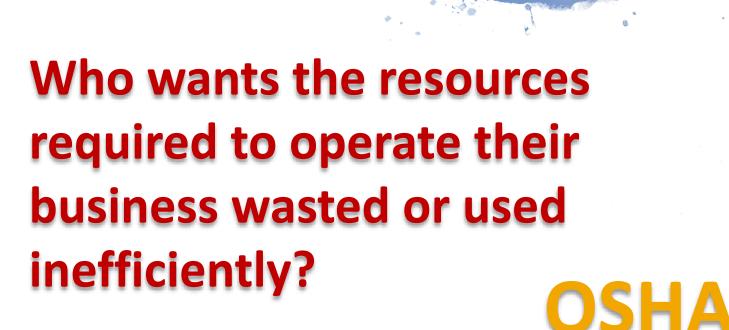
## #1 Priority?

**Business Success** 

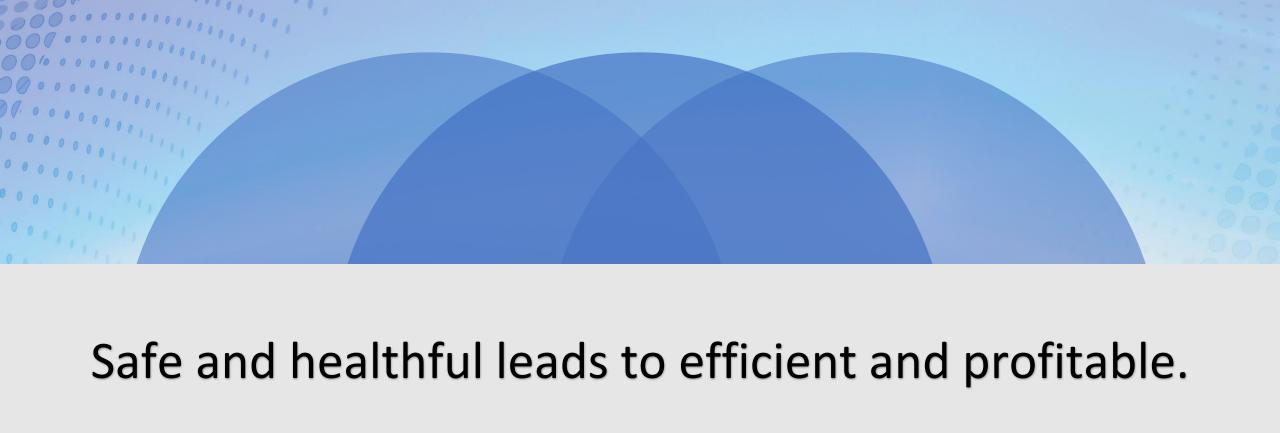
Safety OSHA

Who wants themselves, or anyone associated with themselves, injured or killed? OSHA









Safe and healthful leads to efficient and profitable.

Is inefficient profitable?

Is wasteful profitable?

Do losses help the bottom line?

Safe and healthful leads to efficient and profitable.

Is INEFFICIENT profitable?



# Safe and healthful leads to efficient and profitable. Is INEFFICIENT profitable?



# Safe and healthful leads to efficient and profitable. Is WASTEFUL profitable?





# Safe and healthful leads to efficient and profitable. Is WASTEFUL profitable?

OSHA requires a pump or faucet assembly to transfer flammable or hazardous liquids from containers 5 gallons or larger.

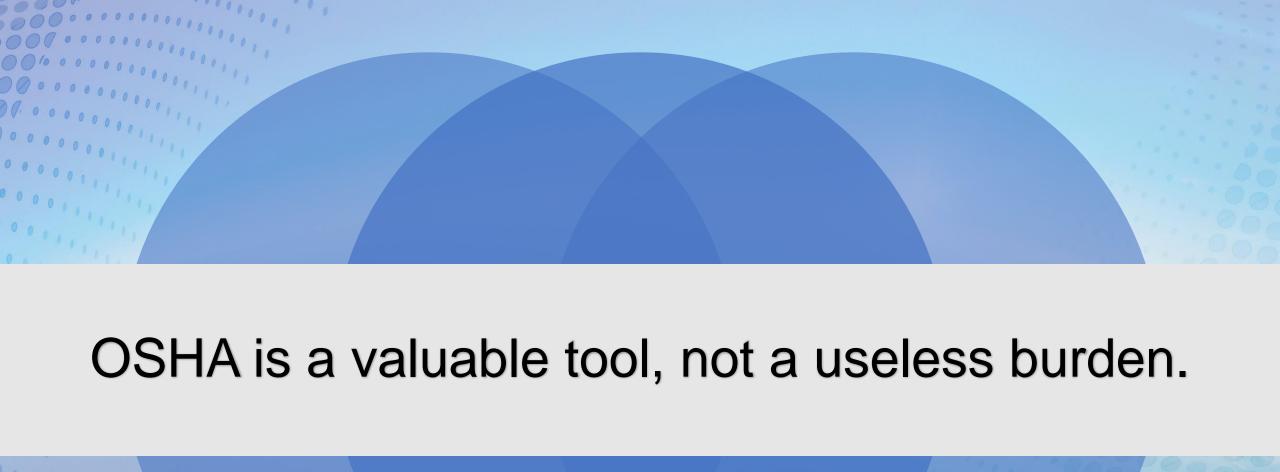
#### Safe and healthful leads to efficient and profitable.

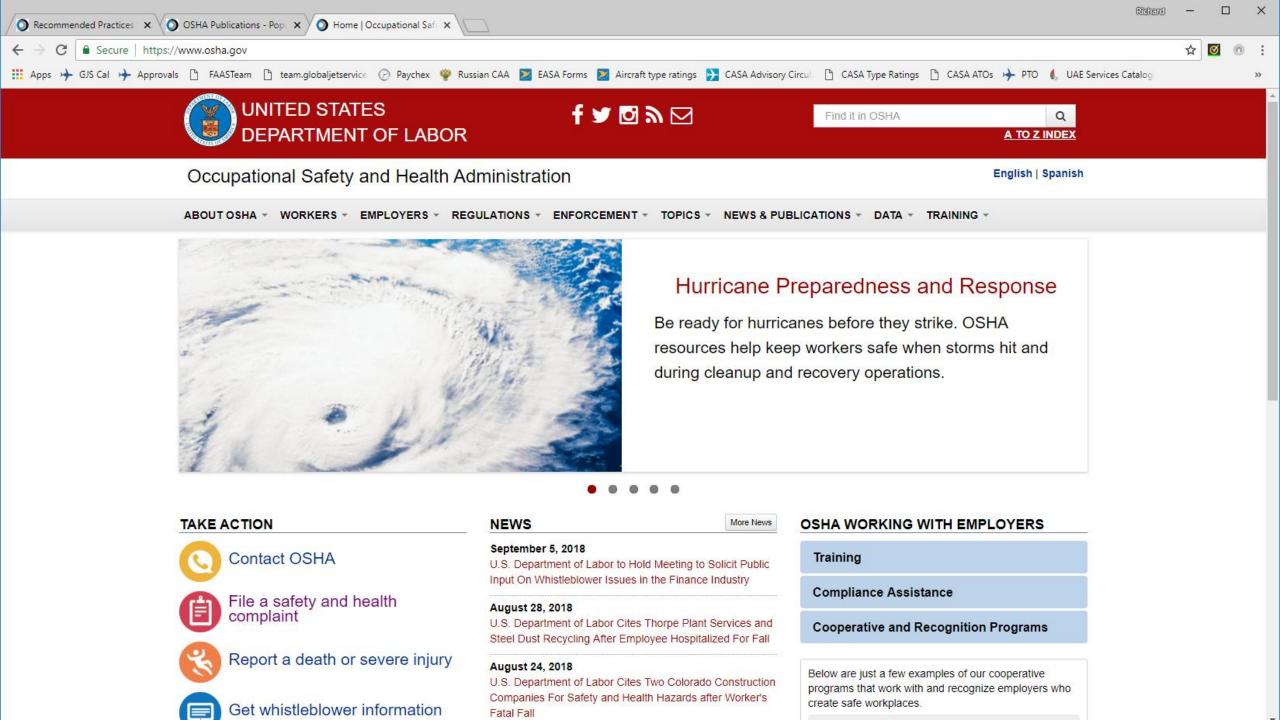
#### Do losses help the bottom line?

https://www.osha.gov/dcsp/smallbusiness/safetypays/

Employers / Employer Help / How can I go beyond compliance and improve my bottom line?/Learn how reducing workplace injuries and illness can improve your bottom line







Most OSHA requirements will mesh neatly into your business philosophy and goals.

Safe and healthful leads to efficient and profitable.

OSHA is a valuable tool, not a useless burden.

OSHA can be a burden at times, but not nearly as big a burden as the accidents, injuries, and losses it prevents. What is the most difficult safety program to justify and fund?

The one that WORKS!

# Same Campage OSIIA Taming of Internet

### Some Common OSHA Topics of Interest

## **Walking and Working Surfaces**

Four feet or more above the next lowest surface requires Fall Protection.



## **Walking and Working Surfaces**

## Why all the

fuss!? Slips, trips, and falls

65% of all work days lost

25% of all reportable injuries

15% of all accidental deaths

## Walking and Working Surfaces



Inventory (SDS) **Container Labels Training Change Management** 

**Inventory (SDS)** 





**Inventory (SDS)** 





Inventory (SDS)





#### **Container Labels**





**Training** 





Everyone who may be exposed!

**Change Management** 

Removing from or adding to inventory





**Change Management** 



**Under the Workplace Hazardous Materials Information System (WHMIS) 1988:** 

Flammable liquids have a flashpoint below 37.8°C (100°F).

Combustible liquids have a flashpoint at or above 37.8°C (100°F) and below 93.3°C (200°F).

#### Flashpoint:

The lowest temperature at which vapors of the material will ignite, when given an ignition source.

#### **Auto Ignition:**

The temperature at which the vapor ignites spontaneously without an ignition source.

#### Jet A:

FP - 100° F / 38° C

AI - 410° F / 210° C

**Lower Explosion Limit (LEL), 0.6%(V)** 

**Upper Explosion Limit (UEL), 4.7%(V)** 

SAFETY DATA SHEET



Jet A Aviation Fuel

Version 2.2 Revision Date 2016-05-17

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information

Product Name Jet A Aviation Fuel

Material 1102484, 1103429, 1102481, 1103418, 1102485, 1102483,

1102482, 1024254, 1024255, 1024256, 1024257, 1104981,

Use : Fuel

Company Chevron Phillips Chemical Company LP

Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380

Emergency telephone:

866.442.9628 (North America)

1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department Product Safety and Toxicology Group E-mail address

SDS@CPChem.com www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR

1910.1200; the SDS and labels contain all the information as required by the standard.

**Emergency Overview** 

Danger

Form: Liquid Physical state: Liquid Color: Clear light yellow

OSHA Hazards Flammable Liquid, Carcinogen, Mild skin irritant, Aspiration

hazard, Delayed target organ effects

SDS Number:100000014588

Jet A Aviation Fuel

Revision Date 2016-05-17

SAFETY DATA SHEET

Color : Clear light yellow

Safety data

Version 2.2

Flash point : 37.8 °C (100.0 °F)

Lower explosion limit : 0.6 %(V) : 4.7 %(V) Upper explosion limit

Oxidizing properties : no

Autoignition temperature : 210 °C (410 °F)

Molecular formula : UVCB

Molecular weight : Not applicable : Not applicable

: No data available Pour point

Boiling point/boiling range : 149 - 300 °C (300 - 572 °F)

: 0.40 MMHG Vapor pressure

Relative density : 0.775

at 20 °C (68 °F)

Density : 806.5 g/l Water solubility : Negligible

Partition coefficient: noctanol/water

: No data available

Viscosity, kinematic

: 1.5 cSt at 20 °C (68 °F)

: 4.5

Relative vapor density (Air = 1.0)

Evaporation rate : 1

: > 99 % Percent volatile

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Conditions to avoid : Heat, flames and sparks.

SDS Number: 100000014588

7/15



#### SDS

Revision date: 14/08/2018

Superpedes date: 03/09/2015

#### Aviation Jet Fuel JET A-1 (JETA1)

Eye/face protection Tight-fitting safety glasses.

Hand protection Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Neoprene. Polyvinyl chloride (PVC). The selected gloves should have a breakthrough time of at least 8 hours. Protection class 6. Protective gloves according to

standards EN 420 and EN 374. Change protective gloves regularly.

Other skin and body protection

Protective clothing when needed. Wear anti-static protective clothing if there is a risk of

ignition from static electricity.

Respiratory protection

Filter device/half mask Gas filter, type A2. Filter device could be used maximum 2 hours at a time. Filter devices must not be used in conditions where the oxygen level is low (< 19 vol.-%). At high concentrations a breathing apparatus must be used (self-contained or fresh air hose breathing apparatus). Filter must be changed often enough. Respirator according to standard

Take precautions against leakage by constructing collecting pools and sewerage systems as

well as by surfacing the loading and unloading stations.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Colour Clear.

Odour Hydrocarbons.

Odour threshold

≤ -47°C (ASTM D2386, D5972, IP 529) Melting point

log Kow: > 3

Initial boiling point and range 170 - 300°C (ASTM D 86)

Flash point ≥ 40°C (IP 170)

Upper/lower flammability or

Upper flammable/explosive limit: 0,6 % Lower flammable/explosive limit: 6 %

explosive limits

Vapour pressure ~ 2 kPa @ 38°C

Vapour density > 3 (Air = 1.0)

Relative density

0,775 - 0,840 @ 15°C (ASTM D4052)

Solubility(ies)

The product has poor water-solubility. < 50 mg/l @ 20°C

Partition coefficient

Auto-ignition temperature ~ 250°C

Decomposition Temperature -

Viscosity

Kinematic viscosity < 7 mm2/s @ 40°C

Explosive properties

Not considered to be explosive

Oxidising properties

Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Not known.

SECTION 10: Stability and reactivity

## What Can Be Stored with What

## YES: Flammable / Combustible





# What Can Be Stored with What NO: Flammable / Combustible and Non-Flammable





# What Can Be Stored with What NO: Flammable / Combustible / Corrosives or Oxidizers







#### NO:

#### What Can Be Stored with What Flammable / Combustible / Corrosives or Oxidizers

#### 1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name:

BONDERITE C-IC 33 AERO ACID DEOXIDIZER known as TURCO

**ALUMIPREP 33** Product type:

Acidic Cleaner for Industrial Application None identified

Region: United States

Restriction of Use: Company address:

Henkel Corporation

Contact information: Telephone: +1 (860) 571-5100

One Henkel Way Rocky Hill, Connecticut 06067 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

#### 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER:

COMBUSTIBLE LIQUID. MAY BE CORROSIVE TO METALS.

HARMFUL IF SWALLOWED OR IN CONTACT WITH SKIN. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE AN ALLERGIC SKIN REACTION

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
CORROSIVE TO METALS	1
ACUTE TOXICITY ORAL	4
ACUTE TOXICITY DERMAL	4
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1

## PICTOGRAM(S)

#### **Precautionary Statements**

Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep only in original container. Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out

Response:

of the workplace. Wear protective gloves, eye protection, and face protection. If SWALLOWED: Immediately call poison control or physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center or physician. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish. Absorb spillage to prevent material damage.



IDH number: 594416 Product name: BONDERITE C-IC 33 AERO ACID DEOXIDIZER known as TURCO ALUMIPREP 33





When can your organization be cited for an OSHA violation?



This is based on the employer / employee relationship.

And the type of employer your organization is.





# QUESTIONS?



#### OSHA, use it, don't fear it – Key Takeaways



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