

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Issue date: 04/15/2020 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Substance

Substance name : WELD-ON® 2354 Solvent Cement for bonding ABS and Styrene

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Solvent

Restrictions on use : No additional information available

1.3. Supplier

ManufacturerSupplierIPS CorporationIPS Adhesives17109 South Main Street600 Ellis RoadGardena, CA 90248-3127 - USADurham, NC 27703 - USA

T 310-898-3300

www.ipscorp.com

1.4. Emergency telephone number

Emergency number : CHEMTEL 800-255-3924 / +1 813-248-0585 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Flammable liquids, Category 2

H225 Highly flammable liquid and vapour.

Serious eye damage/eye irritation, Category 2A

H319 Causes serious eye irritation.

Specific target organ toxicity — Single exposure, Category 3, Narcosis H336 May cause drowsiness or dizziness.

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS) :





Signal word (GHS) : Danger

Hazard statements (GHS) : H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

Precautionary statements (GHS) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 - Call a poison center/doctor if you feel unwell

P337+P313 - If eye irritation persists: Get medical advice/attention. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

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P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

100% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : WELD-ON® 2354 Solvent Cement for bonding ABS and Styrene

Name	Product identifier	%	GHS classification
2-Butanone	(CAS-No.) 78-93-3	90 – 100	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of hazard classes and H-statements: see section 16

3.2 Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it

pefore reuse.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause drowsiness or dizziness. Nausea. Headache.

Symptoms/effects after skin contact : Repeated or prolonged skin contact may cause dermatitis and defatting.

Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Nausea. Vomiting. Mental confusion.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour. Flammable vapours may accumulate in the container.

Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. Thermal decomposition may produce : Carbon oxides (CO, CO2), Hydrogen chloride,

smoke.

Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed

containers, spreading fire and increasing risk of burns and injuries.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Avoid contact with skin, eyes and clothing. Do not breathe aerosol. Do not breathe vapour. Use personal protective equipment as required.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2. Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Use steel container.

Other information : Do not use zinc, aluminum, or plastic containers.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Use only outdoors or in a well-ventilated area. Do not breathe aerosol. Do not breathe vapours. Wear personal protective equipment.

: Do not eat, drink or smoke when using this product.

Hygiene measures : Do not eat, drink or smoke when us

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical/ventilating/lighting

equipment.

Storage conditions : Keep only in the original container. Keep in fireproof place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids. Strong oxidizers. amines. ammonia. Caustic products.

Isocyanates

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Storage temperature : 5-43 °C

Storage area : Store in dry, cool, well-ventilated area. Store in a dark area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-Butanone (78-93-3)			
ACGIH	Local name	Methyl ethyl ketone (MEK)	
ACGIH	ACGIH TWA (mg/m³)	590 mg/m³	
ACGIH	ACGIH TWA (ppm)	200 ppm	
ACGIH	ACGIH STEL (mg/m³)	885 mg/m³	
ACGIH	ACGIH STEL (ppm)	300 ppm	
ACGIH	Remark (ACGIH)	URT irr; CNS & PNS impair	
OSHA	OSHA PEL (TWA) (mg/m³)	590 mg/m³	

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2-Butanone (78-93-3)		
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	590 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
NIOSH	NIOSH REL (STEL) (mg/m³)	885 mg/m³
NIOSH	NIOSH REL (STEL) (ppm)	300 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid creating mist or spray. Avoid splashing. Emergency eye wash fountains and safety

showers should be available in the immediate vicinity of any potential exposure. Ensure good

ventilation of the work station. Provide local exhaust or general room ventilation.

Environmental exposure controls : Prevent leakage or spillage.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Butyl rubber gloves

Eye protection:

Chemical goggles. If there is a risk of liquid being splashed: face shield

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved organic vapour respirator. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material. In confined space use self-contained breathing apparatus

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1		Informat	ion on	basic p	hysica	l and o	chemi	cal properti	ies
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Physical state : Liquid
Appearance : Clear. Thin.
Colour : Colourless
Odour : ketone
Odour threshold : 5.4 ppm

pH : No data available Melting point : No data available

Freezing point : -86 °C Boiling point : 80 °C Flash point : -9 °C Relative evaporation rate (butylacetate=1) : > 1

Flammability (solid, gas) : Highly flammable liquid and vapour.

Vapour pressure : 78 mm Hg @ 20 $^{\circ}$ C

Relative vapour density at 20 $^{\circ}$ C : > 2

Relative density : 0.805 @ 23 °C
Solubility : soluble in water.
Log Pow : No data available

Auto-ignition temperature : 515 °C

Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

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Explosive limits : Lower explosive limit (LEL): 1.4 vol %

Upper explosive limit (UEL): 11.4 vol %

Explosive properties : No data available

Oxidising properties : No data available

9.2. Other information

VOC content : ≤ 805 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong bases. Strong acids. Strong oxidizers. amines. ammonia. Caustic products. Isocyanates.

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological information

11.1	Information	on toyico	logical effect	•

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Unknown acute toxicity (GHS_US) 100% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

2-Butanone (78-93-3)	
LD50 oral rat	3460 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE (oral)	3460 mg/kg bodyweight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

2-Butanone (78-93-3)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Likely routes of exposure : Inhalation. Skin and eye contact.

Symptoms/effects after inhalation : May cause drowsiness or dizziness. Nausea. Headache.

Symptoms/effects after skin contact : Repeated or prolonged skin contact may cause dermatitis and defatting.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Nausea. Vomiting. Mental confusion.

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SECTION 12: Ecological information

12.1. **Toxicity**

2-Butanone (78-93-3)	
LC50 fish 1	1587 mg/l
EC50 crustacea	308 mg/l

Persistence and degradability 12.2.

2-Butanone (78-93-3)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Disposal methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Hazardous waste.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1193 Methyl ethyl ketone, 3, II

UN-No.(DOT) : UN1193

Proper Shipping Name (DOT) : Methyl ethyl ketone

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 : 242 DOT Packaging Bulk (49 CFR 173.xxx)

DOT Special Provisions (49 CFR 172.102)

: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during

filling.

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25

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passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

Emergency Response Guide (ERG) Number : 127

Other information : No supplementary information available.

Transport by sea

Transport document description (IMDG) : UN 1193 ETHYL METHYL KETONE (METHYL ETHYL KETONE), 3, II (-1°C c.c.)

UN-No. (IMDG) : 1193

Proper Shipping Name (IMDG) : ETHYL METHYL KETONE (METHYL ETHYL KETONE)

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : II - substances presenting medium danger

Limited quantities (IMDG) : 1 L

Air transport

Transport document description (IATA) : UN 1193 Methyl ethyl ketone, 3, II

UN-No. (IATA) : 1193

Proper Shipping Name (IATA) : Methyl ethyl ketone
Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

2-Butanone (78-93-3)		
Not subject to reporting requirements of the United States SARA Section 313		
Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ	5000 lb	

15.2. International regulations

CANADA

2-Butanone (78-93-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
2-Butanone(78-93-3)	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Data sources

: National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. ACGIH (American Conference of Government Industrial Hygienists). European Standards: Personal Protective Equipment; accessed at: http://ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/personalprotective-equipment/index_en.htm. OSHA 29CFR 1910.1200 Hazard Communication Standard. Chemical Inspection & Regulation Service; accessed at: http://www.cirsreach.com/Inventory/Global_Chemical_Inventories.html. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/. Manufacturer Information. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database. TSCA

Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.

Other information

: None.

Full text of H-statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals
	LD50: Lethal Dose for 50% of the test population
LC50	Median lethal concentration
	TWA: Time Weighted Average
	STEL: Short Term Exposure Limits
	VOC

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

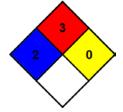
: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient

temperature conditions.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions,

and not reactive with water.



SDS Prepared by: The Redstone Group, dba SafeBridge Consultants, Inc.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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