SAFETY DATA SHEET

DPP108

Section 1. Identification

Product name	: DUPLI-COLOR™ Professional Weld-Through Cold Galvanizing Primer	
Product code	: DPP108	
Other means of identification	: Not available.	
Product type	: Aerosol.	
Relevant identified uses of t	ne substance or mixture and uses advised against	
Paint or paint related material.		
Manufacturer	: Dupli-Color Products Company 101 W. Prospect Avenue Cleveland, OH 44115	
Emergency telephone number of the company	: (216) 566-2917	
Product Information Telephone Number	: (800) 247-3270	
Regulatory Information Telephone Number	: (216) 566-2902	
Transportation Emergency Telephone Number	: (800) 424-9300	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 16.4% (oral), 67.8% (dermal), 63.7% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger

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Section 2. Hazards identification

Hazard statements	 Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. 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 or attention.
Storage	 Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

Ingredient	name			% by weight	CAS number	
Propane				≥10 - ≤25	74-98-6	
Butane				≥10 - ≤25	106-97-8	
Methyl Ethy	l Ketone			≥10 - ≤17	78-93-3	
Toluene				≤5	108-88-3	
Lt. Aliphatic	Hydrocarbon Solv	ent		≤5	64742-89-8	
	itic Hydrocarbon So			<1	64742-49-0	
	itic Hydrocarbon So			<1	68410-97-9	
	atic Hydrocarbons			<1	64742-95-6	
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Section 3. Composition/information on ingredients

•	0	
trimethylbenzene	<1	25551-13-7
Xylene, mixed isomers	<1	1330-20-7
Heptane	≤0.3	142-82-5
Heavy Aromatic Naphtha	≤0.3	64742-94-5
1,2,4-Trimethylbenzene	≤0.3	95-63-6
1,3,5-Trimethylbenzene	≤0.3	108-67-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Over-exposure signs/sympto	<u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	edical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment special

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large
quantities have been ingested or inhaled.Specific treatments: No specific treatment.Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is
suspected that fumes are still present, the rescuer should wear an appropriate mask or
self-contained breathing apparatus. It may be dangerous to the person providing aid to
give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

Section 5. Fire-fighting measures

Special protective actions	: Promptly isolate the scene by removing all persons from the vicinity of the incident if
for fire-fighters	there is a fire. No action shall be taken involving any personal risk or without suitable
	training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact

Section 7. Handling and storage

Precautions for safe handling

Protective measures
 Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

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information and Section 13 for waste disposal.

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Section 7. Handling and storage

Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Propane74-98-6NIOSH REL (United States, 10 TWA: 1000 ppm 10 hours. TWA: 1800 mg/m³ 10 hours. OSHA PEL (United States, 5/2 TWA: 1800 mg/m³ 8 hours. ACGIH TLV (United States, 17/ Depletion [Asphyxiant]. ExploButane106-97-8NIOSH REL (United States, 17/ Depletion [Asphyxiant]. ExploMethyl Ethyl Ketone78-93-3NIOSH REL (United States, 17/ Depletion [Asphysiant]. Explosive potential. STEL: 1000 ppm 15 minutes. STEL: 300 ppm 16 hours. TWA: 200 ppm 8 hours. TWA: 200 ppm 8 hours. TWA: 200 ppm 16 minutes. STEL: 300 ppm 15 minutes. STEL: 300 ppm 36 hours. STWA: 590 mg/m³ 8 hours. TWA: 590 mg/m³ 8 hours.Toluene108-88-3OSHA PEL Z2 (United States, 5/2 TWA: 590 mg/m³ 8	
Methyl Ethyl KetoneT8-93-3TWA: 800 ppm 10 hours. TWA: 1900 mg/m³ 10 hours. ACGIH TLV (United States, 1/2 [Butane] Explosive potential. STEL: 1000 ppm 15 minutes.Methyl Ethyl Ketone78-93-3ACGIH TLV (United States, 1/2 TWA: 200 ppm 8 hours. TWA: 590 mg/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 300 ppm 15 minutes. STEL: 300 ppm 15 minutes. STEL: 300 ppm 10 hours. TWA: 590 mg/m³ 10 hours. STEL: 300 ppm 15 minutes. STEL: 885 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. STEL: 300 ppm 15 minutes. STEL: 300 ppm 16 hours. TWA: 590 mg/m³ 10 hours. TWA: 590 mg/m³ 15 minutes. STEL: 300 ppm 16 hours. TWA: 590 mg/m³ 16 hours. TWA: 590 mg/m³ 16 hours. TWA: 590 mg/m³ 16 hours. TWA: 590 mg/m³ 8 hours. TWA: 590 mg/m³ 8 hours. TWA: 590 mg/m³ 8 hours. TWA: 590 mg/m³ 8 hours.Toluene108-88-3OSHA PEL Z2 (United States, 5/2 United States, 5/2 TWA: 590 mg/m³ 8 hours.	2018). /2022). Oxyge
TWA: 200 ppm 8 hours. TWA: 590 mg/m³ 8 hours. STEL: 300 ppm 15 minutes. STEL: 885 mg/m³ 15 minutes. 	/2022).
	0/2020).
TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10 TWA: 100 ppm 10 hours. TWA: 375 mg/m ³ 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m ³ 15 minutes. STEL: 560 mg/m ³ 15 minutes. ACGIH TLV (United States, 1/2 Ototoxicant. TWA: 20 ppm 8 hours.	0/2020).

Section 8. Exposure controls/personal protection

Lt. Aliphatic Hydrocarbon Solvent	64742-89-8	None.
Light Aliphatic Hydrocarbon Solvent	64742-49-0	None.
Light Aliphatic Hydrocarbon Solvent	68410-97-9	None.
Light Aromatic Hydrocarbons	64742-95-6	None.
trimethylbenzene	25551-13-7	ACGIH TLV (United States, 1/2022).
		[trimethyl benzene, isomers]
		TWA: 10 ppm 8 hours.
		TWA: 123 mg/m ³ 8 hours.
Xylene, mixed isomers	1330-20-7	ACGIH TLV (United States, 1/2022). [xylene]
, , , , , , , , , , , , , , , , , , ,		TWA: 20 ppm 8 hours.
		TWA: 434 mg/m ³ 8 hours.
		STEL: 651 mg/m ³ 15 minutes.
		OSHA PEL (United States, 5/2018).
		[Xylenes]
		TWA: 100 ppm 8 hours.
		TWA: 435 mg/m ³ 8 hours.
Heptane	142-82-5	ACGIH TLV (United States, 1/2022).
		[Heptane]
		TWA: 400 ppm 8 hours.
		TWA: 1640 mg/m³ 8 hours.
		STEL: 500 ppm 15 minutes.
		STEL: 2050 mg/m ³ 15 minutes.
		NIOSH REL (United States, 10/2020).
		TWA: 85 ppm 10 hours.
		TWA: 350 mg/m ³ 10 hours.
		CEIL: 440 ppm 15 minutes.
		CEIL: 1800 mg/m ³ 15 minutes.
		OSHA PEL (United States, 5/2018).
		TWA: 500 ppm 8 hours.
		TWA: 2000 mg/m ³ 8 hours.
	04740.04 5	
Heavy Aromatic Naphtha	64742-94-5	
1,2,4-Trimethylbenzene	95-63-6	NIOSH REL (United States, 10/2020).
		TWA: 25 ppm 10 hours.
		TWA: 125 mg/m ³ 10 hours.
		ACGIH TLV (United States, 1/2022).
		TWA: 10 ppm 8 hours.
1,3,5-Trimethylbenzene	108-67-8	ACGIH TLV (United States, 1/2022).
		[trimethyl benzene, isomers]
		TWA: 10 ppm 8 hours.
		TWA: 123 mg/m ³ 8 hours.
		NIOSH REL (United States, 10/2020).
		TWA: 25 ppm 10 hours.
		TWA: 25 ppm To hours. TWA: 125 mg/m ³ 10 hours.
		TWA. 120 mg/m To hours.

Occupational exposure limits (Canada)

Ingredien	t name		CAS #	Exposure lim	its		
Normal pro	opane		74-98-6	CA Alberta Provincial (Canada, 6/2013 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 6/202 TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada		21). a,	
) ate of issue/l	Date of revision	: 11/25/2022	Date of previous issue	: 6/17/2022	Version	: 23	7/19
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Section 8. Exposure controls/personal protection 3/2022). Oxygen Depletion [Asphyxiant]. Explosive potential. CA Ontario Provincial (Canada, 6/2019). Oxygen Depletion [Asphyxiant]. Explosive potential. Butane 106-97-8 CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Butane] STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 3/2022). [butane, all isomers] Explosive potential. STEL: 1000 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). [Butane, All isomers] Explosive potential. STEL: 1000 ppm 15 minutes. 78-93-3 CA Alberta Provincial (Canada, 6/2018). Methyl ethyl ketone 15 min OEL: 300 ppm 15 minutes. 8 hrs OEL: 200 ppm 8 hours. 8 hrs OEL: 590 mg/m³ 8 hours. 15 min OEL: 885 mg/m³ 15 minutes. CA British Columbia Provincial (Canada, 3/2022). TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2021). TWAEV: 50 ppm 8 hours. TWAEV: 150 mg/m³ 8 hours. STEV: 100 ppm 15 minutes. STEV: 300 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 300 ppm 15 minutes. TWA: 200 ppm 8 hours. Toluene 108-88-3 CA Alberta Provincial (Canada, 6/2018). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 188 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 3/2022). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). Absorbed through skin. TWAEV: 50 ppm 8 hours. TWAEV: 188 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 8/19 Date of issue/Date of revision : 11/25/2022 Date of previous issue : 6/17/2022 Version : 23 **DPP108** DUPLI-COLOR™ Professional Weld-Through Cold SHW-85-NA-GHS-US **Galvanizing Primer**

Section 8. Exposure controls/personal protection

	• •	-
		7/2013). Absorbed through skin.
		STEL: 60 ppm 15 minutes.
		TWA: 50 ppm 8 hours.
Xylene	1330-20-7	CA Alberta Provincial (Canada, 6/2018).
		[Dimethylbenzene]
		8 hrs OEL: 100 ppm 8 hours.
		15 min OEL: 651 mg/m ³ 15 minutes.
		15 min OEL: 150 ppm 15 minutes.
		8 hrs OEL: 434 mg/m ³ 8 hours.
		CA British Columbia Provincial (Canada,
		3/2022). [Xylene (o, m & p isomers)]
		TWA: 100 ppm 8 hours.
		STEL: 150 ppm 15 minutes.
		CA Quebec Provincial (Canada, 6/2021).
		[Xylene]
		TWAEV: 100 ppm 8 hours.
		TWAEV: 434 mg/m ³ 8 hours.
		STEV: 150 ppm 15 minutes.
		STEV: 651 mg/m ³ 15 minutes.
		CA Ontario Provincial (Canada, 6/2019).
		[Xylene (o-, m-, p-isomers)]
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
		CA Saskatchewan Provincial (Canada,
		7/2013). [Xylene]
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.

Occupational exposure limits (Mexico)

Galvanizing Primer

	CAS #	Exposure limits	
Propane	74-98-6	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.	
Butane	106-97-8	NOM-010-STPS-2014 (Mexico, 4/2016).	
		TWA: 1000 ppm 8 hours.	
Methyl Ethyl Ketone	78-93-3	NOM-010-STPS-2014 (Mexico, 4/2016).	
		TWA: 200 ppm 8 hours.	
		STEL: 300 ppm 15 minutes.	
Toluene	108-88-3	NOM-010-STPS-2014 (Mexico, 4/2016).	
		TWA: 20 ppm 8 hours.	

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures other engineering controls to keep worker exposure to airbo recommended or statutory limits. The engineering controls vapor or dust concentrations below any lower explosive limit ventilation equipment.	rne contaminants below any also need to keep gas, ts. Use explosion-proof
Environmental exposure controls	Emissions from ventilation or work process equipment shou they comply with the requirements of environmental protecti- cases, fume scrubbers, filters or engineering modifications t will be necessary to reduce emissions to acceptable levels.	on legislation. In some
Individual protection measure	<u>s</u>	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling cl eating, smoking and using the lavatory and at the end of the Appropriate techniques should be used to remove potentially Wash contaminated clothing before reusing. Ensure that ey showers are close to the workstation location.	working period. y contaminated clothing.
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Section 8. Exposure controls/personal protection

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Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

	Professional Weld-Through Cold	SHW-85-I
Auto-ignition temperature	: Not available. : 11/25/2022 Date of previous issue : 6/17/2022	Version
Partition coefficient: n- octanol/water	: Not applicable.	
Not available.		
Solubility(ies)	:	
Relative density	: 1.14	
Relative vapor density	: 1.55 [Air = 1]	
Vapor pressure	: 101.3 kPa (760 mm Hg)	
Lower and upper explosion limit/flammability limit	: Lower: 0.9% Upper: 10%	
Flammability	: Not available.	
Evaporation rate	: 5.6 (butyl acetate = 1)	
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]	
Boiling point, initial boiling point, and boiling range	: Not available.	
Melting point/freezing point	: Not available.	
рН	: 7	
Odor threshold	: Not available.	
Odor	: Not available.	
Color	: Not available.	
Physical state	: Liquid.	
<u>Appearance</u>		

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Section 9. Physical and chemical properties

Decomposition temperature	1	Not available.
Viscosity	:	Kinematic (40°C (104°F)): <20.5 mm²/s (<20.5 cSt)
Molecular weight	:	Not applicable.
Aerosol product		
Type of aerosol	:	Spray
Heat of combustion	:	19.441 kJ/g

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Light Aliphatic Hydrocarbon	LD50 Oral	Rat	5.17 g/kg	-
Solvent				
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
trimethylbenzene	LD50 Oral	Rat	8970 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Heptane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	103 g/m ³	4 hours
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
•	LD50 Oral	Rat	5 g/kg	-
1,3,5-Trimethylbenzene	LC50 Inhalation Vapor	Rat	24000 mg/m ³	4 hours
-	LD50 Oral	Rat	5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100 mg	
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
		D .		mg	
	Skin - Mild irritant	Pig	-	24 hours 250	-
	Olvin Mild invite st	Dahkit		uL	
	Skin - Mild irritant	Rabbit	-	435 mg 24 hours 20	-
	Skin - Moderate irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit		mg 500 mg	
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
		Rabbit		uL	-
trimethylbenzene	Eyes - Mild irritant	Rabbit	_	24 hours 500	-
		1 tab bit		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Heavy Aromatic Naphtha	Skin - Mild irritant	Rabbit	-	24 hours 500	-
		5		uL	
1,3,5-Trimethylbenzene	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Olvin Madanata innitest	Dahkit		mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Toluene Xylene, mixed isomers	-	3 3	- -

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

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Name	Category	Route of exposure	Target organs
Propane	Category 3	-	Respiratory tract irritation
Butane	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Methyl Ethyl Ketone	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Toluene	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Lt. Aliphatic Hydrocarbon Solvent	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Light Aliphatic Hydrocarbon Solvent	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
Light Aliphatic Hydrocarbon Solvent	Category 3 Category 3	-	Narcotic effects Respiratory tract
Light Aromatic Hydrocarbons	Category 3 Category 3	-	irritation Narcotic effects Respiratory tract
Xylene, mixed isomers	Category 3 Category 3	-	irritation Narcotic effects Respiratory tract
Heptane	Category 3	-	irritation Respiratory tract irritation
Heavy Aromatic Naphtha 1,2,4-Trimethylbenzene	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Respiratory tract
1,3,5-Trimethylbenzene	Category 3	-	irritation Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Propane	Category 2	-	-
Butane	Category 2	-	-
Methyl Ethyl Ketone	Category 2	-	-
Toluene	Category 2	-	-
Lt. Aliphatic Hydrocarbon Solvent	Category 2	-	-
Light Aliphatic Hydrocarbon Solvent	Category 2	-	-
Light Aliphatic Hydrocarbon Solvent	Category 2	-	-
Light Aromatic Hydrocarbons	Category 2	-	-
Xylene, mixed isomers	Category 2	-	-
Heptane	Category 2	-	-

Aspiration hazard

Name	Result
Propane	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
trimethylbenzene	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Heptane	ASPIRATION HAZARD - Category 1
Heavy Aromatic Naphtha	ASPIRATION HAZARD - Category 1
1,2,4-Trimethylbenzene	ASPIRATION HAZARD - Category 1
1,3,5-Trimethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely : Not available.

routes of exposure

Potential acute health effects				
Eye contact	: Causes serious eye irritation.			
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.			
Skin contact	: Causes skin irritation.			
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.			

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

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<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	ffects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	7953.04 mg/kg

Section 12. Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
Methyl Ethyl Ketone	Acute EC50 >500000 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 3220000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Toluene	Acute EC50 >433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
trimethylbenzene	Acute LC50 5600 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
Xylene, mixed isomers	Acute LC50 8500 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Heptane	Acute LC50 375000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Acute LC50 7720 μg/l Fresh water	Fish - Pimephales promelas	96 hours
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1,3,5-Trimethylbenzene Acute LC50 13000 µg/l Marine water Crust		Crustaceans - Cancer magister -	48 hours
		Zoea	
	Acute LC50 12520 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Chronic NOEC 0.4 mg/l Fresh water	Daphnia - Daphnia magna	21 days

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Methyl Ethyl Ketone Toluene	-	-	Readily Readily
Light Aromatic Hydrocarbons Xylene, mixed isomers	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Toluene	-	90	low
Lt. Aliphatic Hydrocarbon	-	10 to 2500	high
Solvent			_
Light Aliphatic Hydrocarbon	-	10 to 2500	high
Solvent			-
Light Aliphatic Hydrocarbon	-	10 to 2500	high
Solvent			
Light Aromatic Hydrocarbons	-	10 to 2500	high
Xylene, mixed isomers	-	8.1 to 25.9	low
Heptane	-	552	high
Heavy Aromatic Naphtha	-	99 to 5780	high
1,2,4-Trimethylbenzene	-	243	low
1,3,5-Trimethylbenzene	-	161	low

Mobility in soil

Soil/water partition coefficient (Koc) : Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

: 6/17/2022

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
nazaru ciass(es)	COMMUNIC ON				
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).	-	-	-
	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship under the Limited Quantity shipping exception.	Dependent upon container size, this product may ship und the Limited Quantity shipping exception.
pecial precautions	conside mode o suitably to shipn of the p dangero	odal shipping descrip or container sizes. Th f transport (sea, air, for that mode of tran nent, and compliance erson offering the pro- bus goods must be tr all actions in case of	e presence of a ship etc.), does not indica nsport. All packaging e with the applicable oduct for transport. F ained on all of the ri	pping description for ate that the product i must be reviewed for regulations is the so People loading and us sks deriving from the	a particular s packaged or suitability prior ble responsibility unloading
ansport in bulk ac IMO instruments	cording : Not avail	able.			

Section 15. Regulatory information

<u>SARA 313</u>

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

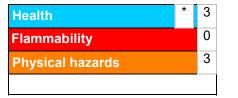
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Section 15. Regulatory information

International lists	: Australia inventory (AIIC): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (CSCL): Not determined.
	Japan inventory (ISHL): Not determined.
	Korea inventory (KECI): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): Not determined.
	Philippines inventory (PICCS): Not determined.
	Taiwan Chemical Substances Inventory (TCSI): Not determined.
	Thailand inventory: Not determined.
	Turkey inventory: Not determined.
	Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPEČIFÍC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

HISTORY	
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Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient

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Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.