

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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1 Identification

[•] Product identifier

- Trade name: ASA-WFTC SPRAY INSULATION ADHESIVE
- · Product code: 5163

· Recommended use and restriction on use

- · Recommended use: Adhesives
- · Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: DURO DYNE CORPORATION 81 Spence Street Bay Shore, NY 11706 800-899-3876

Emergency telephone number:

ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Aerosol 1	H222	Extremely flammable aerosol.
Press. Gas	H280	Contains gas under pressure; may explode if heated.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Repr. 2	H361	Suspected of damaging fertility or the unborn child.
STOT SE 3	H336	May cause drowsiness or dizziness.
STOT RE 2	H373	May cause damage to the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure: Inhalation.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

⁻ Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms:



GHS02 GHS04 GHS07 GHS08

· Signal word: Danger

· Hazard statements:

H222 Extremely flammable aerosol.

- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure: Inhalation.

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H304 May be fatal	if swallowed and enters airways.
• Precautionary sta	atements:
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P331	Do NOT induce vomiting.
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
• Other hazards 1	There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Componen	ts:	
74-98-6	Propane Flam. Gas 1, H220 Press. Gas, H280 Simple Asphyxiant	20-<50%
67-64-1	Acetone Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	20-<50%
64742-49-0	Naphtha (petroleum), hydrotreated light (Nota P, <0.1% benzene) Flam. Liq. 2, H225 Asp. Tox. 1, H304	10-<25%
115-10-6	dimethyl ether Flam. Gas 1, H220 Press. Gas, H280	3-7%
142-82-5	Heptane Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336	1-<5%
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	1-<5%
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🚸 Asp. Tox. 1, H304			
110-54-3 n-hexane	1-<3%		
 Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 Eye Irrit. 2B, H320 			
108-87-2 methylcyclohexane Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336	0.1-<1%		
· Additional information:			

litional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

· After inhalation: Supply fresh air; consult doctor in case of complaints.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Dizziness

Coughing

Causes eye irritation.

Slight irritant effect on skin and mucous membranes.

Disorientation

Danger:

May cause damage to the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure: Inhalation.

Suspected of damaging fertility or the unborn child.

· Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-fighting measures

• Extinguishing media

• Suitable extinguishing agents:

Gaseous extinguishing agents Carbon dioxide Water fog / haze Fire-extinguishing powder Foam

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· For safety reasons unsuitable extinguishing agents: Water stream.

 $^{\rm \cdot}$ Special hazards arising from the substance or mixture

Extremely flammable aerosol.

Danger of receptacles bursting because of high vapor pressure if heated.

[•] Advice for firefighters

• Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information:

Eliminate all ignition sources if safe to do so.

Use large quantities of foam as it is partially destroyed by the product.

Cool endangered product with water spray.

Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Protect from heat.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Allow to solidify. Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling

· Precautions for safe handling:

Use only in well ventilated areas.

Keep away from heat and direct sunlight.

Avoid contact with the eyes and skin.

Avoid breathing mist, vapors, or spray.

Open and handle receptacle with care.

· Information about protection against explosions and fires:

Danger of receptacles bursting because of high vapor pressure if heated.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray on a naked flame or any incandescent material.

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Emergency cooling must be available in case of nearby fire.

[•] Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurized containers.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

• Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the container bursting.

• Specific end use(s) No relevant information available.

Control paran	neters	
Components w	vith limit values that require monitoring at the workplace:	
74-98-6 Propan	10	
PEL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm	
REL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm	
TLV (USA)	refer to Appendix F inTLVs&BEIs book; D, EX	
EL (Canada)	Simple asphyxiant; EX	
EV (Canada)	Long-term value: 1,000 ppm revoked as of 01/01/18	
LMPE (Mexico)	Long-term value: 1000 ppm	
67-64-1 Aceton	le	
PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm	
REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm	
TLV (USA)	Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI	
EL (Canada)	Short-term value: 500 ppm Long-term value: 250 ppm	
EV (Canada)	Short-term value: 750 ppm Long-term value: 500 ppm	
LMPE (Mexico)	Short-term value: 750 ppm Long-term value: 500 ppm A4, IBE	
115-10-6 dimet	hyl ether	
WEEL (USA)	Long-term value: 1000 ppm	
EL (Canada)	Long-term value: 1000 ppm	
142-82-5 Hepta	ine	
PEL (USA)	Long-term value: 2000 mg/m ³ , 500 ppm	
REL (USA)	Long-term value: 350 mg/m³, 85 ppm Ceiling limit value: 1800* mg/m³, 440* ppm *15-min	





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TLV (USA)	Short-term value: 2050 mg/m ³ , 500 ppm Long-term value: 1640 mg/m ³ , 400 ppm			
EL (Canada)	Short-term value: 500 ppm Long-term value: 400 ppm			
EV (Canada)	Short-term value: 2045 mg/m³, 500 ppm Long-term value: 1635 mg/m³, 400 ppm			
LMPE (Mexico)	Short-term value: 500 ppm Long-term value: 400 ppm			
110-54-3 n-hex	ane			
PEL (USA)	Long-term value: 1800 mg/m ³ , 500 ppm			
REL (USA)	Long-term value: 180 mg/m ³ , 50 ppm			
TLV (USA)	Long-term value: 176 mg/m³, 50 ppm Skin; BEI			
EL (Canada)	Long-term value: 20 ppm Skin			
EV (Canada)	Long-term value: 176 mg/m³, 50 ppm			
LMPE (Mexico)	Long-term value: 50 ppm PIEL, IBE			
108-87-2 methy	vicyclohexane			
PEL (USA)	Long-term value: 2000 mg/m ³ , 500 ppm			
REL (USA)	Long-term value: 1600 mg/m ³ , 400 ppm			
TLV (USA)	Long-term value: 1610 mg/m ³ , 400 ppm			
EL (Canada)	Long-term value: 400 ppm			
EV (Canada)	Long-term value: 1,600 mg/m ³ , 400 ppm			
LMPE (Mexico)	Long-term value: 400 ppm			
· Ingredients wit	th biological limit values:			
67-64-1 Aceton	le			
BEI (USA) 50 r				
	lium: urine			
	e: end of shift ameter: Acetone (nonspecific)			
110-54-3 n-hex				
BEI (USA) 0.4	ma/L			
	lium: urine			
	e: end of shift at end of workweek ameter: 2.5-Hexanedione without hydrolysis			
Exposure cor				
	tive and hygienic measures:			
	The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.			
	nove all soiled and contaminated clothing.			
Wash hands be	fore breaks and at the end of work.			
	ases / fumes / aerosols.			
	ontrols: Provide adequate ventilation. ipment: Suitable respiratory protective device recommended.			
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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Gloves should provide protection from freezing temperatures.

Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

• Limitation and supervision of exposure into the environment No relevant information available.

· Risk management measures No relevant information available.

Physical and chemical prope	erties
Information on basic physical a	and chemical properties
· Appearance:	
Form:	Aerosol
Color:	According to product specification
Odor:	Not determined.
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	40.69 °C (105.2 °F)
· Flash point:	-104.4 °C (-155.9 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.
· Explosion limits	
Lower:	1.5 Vol %
Upper:	7.5 Vol %
· Oxidizing properties:	Not determined.
· Vapor pressure:	5240 hPa (3930.3 mm Hg)
· Density:	
Relative density:	<1
Vapor density:	Not determined.
Evaporation rate:	Not applicable.
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Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/	water): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

. . .

• **Reactivity:** No relevant information available.

- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- Danger of receptacles bursting because of high vapor pressure if heated.
- · Possibility of hazardous reactions

Reacts violently with oxidizing agents.

Develops readily flammable gases / fumes.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Extremely flammable aerosol.

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid Excessive heat.

· Incompatible materials Oxidizers

[•] Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

11 Toxicological information

 Information on toxicological effects • Acute toxicity: Based on available data, the classification criteria are not met. · LD/LC50 values that are relevant for classification: None. · Primary irritant effect: · On the skin: Irritant to skin and mucous membranes. · On the eye: Causes eye irritation. · Sensitization: Based on available data, the classification criteria are not met. · IARC (International Agency for Research on Cancer): Present in trace quantities. 71-43-2 Benzene 100-41-4 Ethylbenzene 100-42-5 styrene NTP (National Toxicology Program): Present in trace quantities. 71-43-2 Benzene 100-42-5 styrene

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2B

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Trade name: ASA-WFTC SPRAY INSULATION ADHESIVE (Cont'd. of page 8) · OSHA-Ca (Occupational Safety & Health Administration): Present in trace quantities. 71-43-2 Benzene Probable route(s) of exposure: Inhalation. Eve contact. Skin contact. · Germ cell mutagenicity: Based on available data, the classification criteria are not met. · Carcinogenicity: Based on available data, the classification criteria are not met. · Reproductive toxicity: Suspected of damaging fertility or the unborn child. · STOT-single exposure: May cause drowsiness or dizziness. · STOT-repeated exposure: May cause damage to the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure: Inhalation. • Aspiration hazard: May be fatal if swallowed and enters airways.

12 Ecological information

· Toxicity

· Aquatic toxicity Toxic to aquatic life with long lasting effects.

- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- [•] Additional ecological information
- · General notes: Avoid release to the environment.
- Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

· Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	UN1950	
UN proper shipping name		
DOT	Aerosols	



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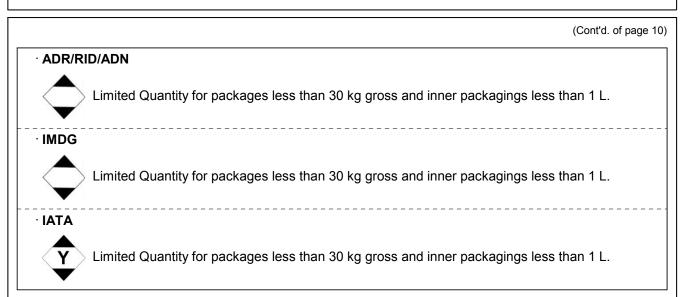


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mixture	health and environmental regulations/legislation specific for the substance
	302 (extremely hazardous substances):
None of t	the ingredients are listed.
Section	355 (extremely hazardous substances):
None of t	the ingredients are listed.
Section	313 (Specific toxic chemical listings):
110-54-3	n-hexane
TSCA (T	oxic Substances Control Act)
All ingred	lients are listed or exempt.
Chemica Present i	tion 65 (California) als known to cause cancer: n trace quantities. Benzene
	Ethylbenzene
100-42-5	
	als known to cause developmental toxicity for females:
	the ingredients are listed.
None of t	
	als known to cause developmental toxicity for males:
Chemica	als known to cause developmental toxicity for males:



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Present ir	n trace quantities.		
71-43-2	Benzene		
108-88-3	Toluene		
· EPA (Env	vironmental Protection Agency):		
67-64-1	Acetone		
142-82-5	Heptane	D	
110-54-3	n-hexane		
	ernational Agency for Research on Cancer): n trace quantities.		
71-43-2	Benzene	1	
100-41-4	Ethylbenzene	2B	
100-42-5	styrene	2B	
Canadian Domestic Substances List (DSL):			
All ingred	ients are listed or exempt.		

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Flam. Gas 1: Flammable gases - Category 1 Flam. Aerosol 1: Aerosols - Category 1 Press. Gas: Gases under pressure - Compressed gas Flam. Liq. 2: Flammable liquids - Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1 Sources Website, European Chemicals Agency (echa.europa.eu) Website. US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets. Individual Manufacturers SDS Prepared by: ChemTel Inc. (Cont'd. on page 13)



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1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com