Reviewed on 03/31/2020



Safety Data Sheet acc. to OSHA HCS

Printing date 03/31/2020

1 Identification

· Product identifier

- Trade name: Solvent 30
- · Application of the substance / the mixture Solvent for thinning and cleaning
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Kayaku Advanced Materials, Inc. 200 Flanders Road Westborough, MA 01581 Tel: (617) 965-5511 Fax: (617) 965-5818
- Information department: Product Safety Email: productsafety@kayakuAM.com • Emergency telephone number:
- Kayaku Advanced Materials : 617-965-5511 Chemtrec USA Emergency : 800-424-9300 Chemtrec International Emergency : 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements

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



· Signal word Warning · Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. · Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 If swallowed: Immediately call a poison center/doctor. P302+P352 If on skin: Wash with plenty of soap and water. *P304+P341* If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eves: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. *P333+P313* If skin irritation or rash occurs: Get medical advice/attention. *P337+P313* If eye irritation persists: Get medical advice/attention.

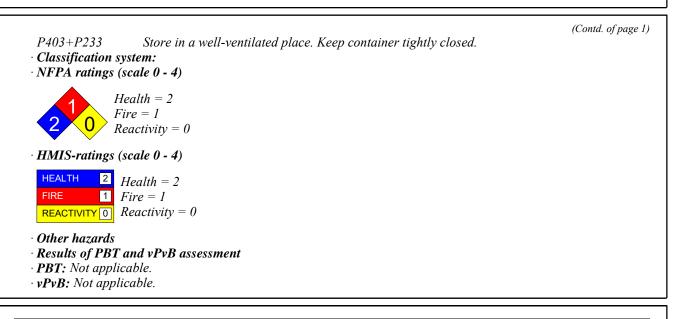
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3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

• Dangeroi	is components:		
106-65-0	Dimethyl succinate	Flam. Liq. 4, H227	10-25%
627-93-0	Dimethyl adipate	Aquatic Acute 3, H402	10-25%
·Additiona	al Components:		
1119-40-0	0 Dimethyl glutarate		40-60%

4 First-aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Wash eyes immediately with a large amount of water or normal saline, occasionally lifting upper and lower eye lids until no evidence of chemical remains (about 20 minutes). Remove contact lenses if present and easy to remove. Seek immediate medical attention.
- After swallowing:

Do not induce vomiting unless instructed to do so by a physician. Wash out mouth with water and keep person at rest. Seek immediate medical attention.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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

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[·] Description of first aid measures



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5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Fire-extinguishing powder
- Alcohol resistant foam
- ABC powder
- For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear SCBA.

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 · Environmental precautions: Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents · 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. · Protective Action Criteria for Chemicals · PAC-1: 106-65-0 Dimethyl succinate 2.5 ppm · PAC-2:

106-65-0 Dimethyl succinate

· PAC-3:

106-65-0 Dimethyl succinate

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaust at the workplace.
- Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Troleel against electrostatic charges.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and containers: No special requirements.

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28 ppm

170 ppm

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- Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
- Do not store together with oxidizing and acidic materials. **Further information about storage conditions:**
- Keep container well-sealed in cool, dry location. Protect from heat and direct sunlight. Store receptacle in a well ventilated area.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace:
- The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
- At this time, the other constituents have no known exposure limits.

107-98-2 1-methoxy-2-propanol

- REL Short-term value: 540 mg/m³, 150 ppm
 - Long-term value: 360 mg/m³, 100 ppm
- *TLV* Short-term value: 369 mg/m³, 100 ppm
- Long-term value: 184 mg/m³, 50 ppm
- Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from food and beverages.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Respiratory equipment:
- In case of low exposure, use cartridge respirator. In case of intensive or longer exposure, use SCBA. *Protection of hands:*



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- *Material of gloves* Nitrile rubber, NBR
- · Penetration time of glove material Contact glove manufacture for break-through time.
- Eye protection:



Tightly sealed goggles

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Information on basic physical and	chemical properties	
General Information		
Appearance:	T::J	
Form: Color:	Liquid Colorless	
Odor:	Sweet	
Odor threshold:	Not determined.	
pH-value:	5.0 - 7.0	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	195 °C (383 °F)	
Flash point:	100 °C (212 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	270 °C (518 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	_
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	0.8 Vol %	
Upper:	8.1 Vol %	
Vapor pressure at 20 $^{\circ}C$ (68 $^{\circ}F$):	11 hPa (8.3 mm Hg)	_
Density at 20 °C (68 °F):	1.091 g/cm ³ (9.1044 lbs/gal)	-
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	1.6-2.3 (BuAc=1)	
Solubility in / Miscibility with		
Water:	Water miscible No	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability Stable

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. Contact with incompatible materials.

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• *Incompatible materials:* Strong Oxidizing Agents, Strong Acids, Strong Bases • *Hazardous decomposition products:* Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- \cdot on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Experience with humans: Target Organs: Central nervous system, kidney, liver, lungs
- \cdot Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. • **Results of PBT and vPvB assessment**

- *PBT*: Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of as regular garbage/trash. Do not allow product to reach sewage system. Disposal must be made in accordance with Federal, State, and Local regulations.

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· Uncleaned packagings:

· Recommendation: Disposal must be made in accordance with Federal, State, and Local regulations.

· UN-Number		
• DOT, ADR, ADN, IMDG, IATA	Not Regulated	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Not Regulated	
· Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
· Class	Not Regulated	
· Packing group		
DOT, ADR, IMDG, IATA	Not Regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
· Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
· UN "Model Regulation":	Not Regulated	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act): All ingredients are listed or comply with TSCA regulations.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

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•	Carcino	genic	categories	
	Curcino	Source	curegories	

· EPA (Environmental Protection Agency)

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

·NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

· New Jersey State Right To Know List

1119-40-0 Dimethyl glutarate

627-93-0 Dimethyl adipate

· Pennsylvania Hazardous Substances List

1119-40-0 Dimethyl glutarate

627-93-0 Dimethyl adipate

· California SCAQMD Rule 443.1 VOC's: No information available.

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



Signal word We	urning
Hazard stateme	nts
H315 Causes sk	in irritation.
H319 Causes se	rious eye irritation.
Precautionary s	statements
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P302+P352	If on skin: Wash with plenty of soap and water.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
<i>P305+P351+P</i> .	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
<i>P337+P313</i>	<i>If eye irritation persists: Get medical advice/attention.</i>
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
Chemical safety	v assessment: A Chemical Safety Assessment has not been carried out.

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.

· Department issuing SDS: Product safety department

· *Contact:* Tom Cole, EHS Manager (tcole@kayakuAM.com)

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Revision History: The manufacturer's information in Section 1 has been updated.
Date of preparation / last revision 03/31/2020 / 1
Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (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
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
<i>Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A</i>
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3