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		(MSDS)		2022.04.01	
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	EVA(Ethyle	ne Vinyl Acetate)	Print date	2022.04.01	
1. IDENTIFICAT	ION				
A.Product name					
\bigcirc Product	name: Hanwha Tot	alEnergies Petrochemi	cal EVA(Ethyl	ene Vinyl	
Acetate)	E120A				
B. Recommended	Use and Restrict	ion on Use			
\bigcirc General	Use	: Plastic articles	or goods		
○ Restrict	ion in use	: Not available			
C.Manufacturer	/Distributor Inf	ormation			
-	arer Information				
Company	Hanwha T	otalEnergies Petroche	mical Co., Lto	1.	
Address	103, D	okgot 2-ro, Daesa	an-Up, Seosa	an-Si,	
		, Korea 31900			
Phone	82-41-66	0-6190 FAX	82-41-660-6	5189	
2. HAZARDS IDEN	NTIFICATION	uha			
A.GHS Classifi	cation			•	
1) Physical	Hazards	: Not classified	lotalEne	ergies	
2) Health H	lazards	: Not classified			
3) Environm	ental Hazards	: Not classified			
B.GHS label el	ements				
1) Hazard s	symbols	: Not applicable			
2) Signal W	ord	: Not applicable			
3) Hazard Statements : Not applicable					
4) Precautionary Statements					
Preven	ition	: Not applicable			
Respon	ise	: Not applicable			
Storag	ge	: Not applicable			
■ Disposal : Not applicable					
C.Other hazard	ls which do not r	esult in classificati	on		

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- Not avail	able		

3. COMPOSION/INFORMATION ON INGREDIENTS

Chemical name	Trade names and Synonyms	CAS No	Contents(%)
ETHYLENEVINYL ACETATE COPOLYMER	EVA	24937-78-8	≥ 99
Additive*	Not applicable	Not applicable	< 1

* In additive components, there are no 1% or more hazardous substance subject to management, no 0.1% or more carcinogens and germ cell mutagenic substance, no 0.2% or more respiratory sensitizing substance(gas), and no 0.3% or more reproductive toxic substance.

4. FIRST-AID MEASURES

- A.Eye Contact
 - Do not rub your eyes.
 Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.
- B. Skin Contact
 - Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
 - Wash contaminated clothing thoroughly before re-using.
- C. Inhalation
 - When exposed to large amounts of steam and mist, move to fresh air.
 - Take specific treatment if needed.
- D. Ingestion

- Please be advised by doctor whether induction of vomit is demanded or not.

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- Rinse you	r mouth with water immediately.			
long term exposure - Not available F.Notes to physician - Notify medical personnel of contaminated situations and have them take appropriate protective measures.				
5. FIRE FIGHTING MEASURE				
A.Suitable (Unsuitable) extinguishing media				
1) Suitable	extinguishing media	, .	1 1	
1) Suitable - Use mis		ant, carbon	dioxide	
1) Suitable - Use mis foam.	extinguishing media			

3) Unusual fire(big fire) : Not available

B. Specific hazards arising from the chemical TotalEnergies
Pyrolysis or combustion may produce irritating gases and carbon oxides.

C. Special protective actions for firefighters

- Cool containers with water until well after fire is out.

- Keep unauthorized personnel out.

- Notify your local fire station and inform the location of the fire and characteristics hazard.

- In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.

- Avoid inhalation of materials or combustion by-products.

- Keep containers cool with water spray.

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6. ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures

- Remove all flammable sources

- If it is not dangerous, stop leaking.

- Take caution of substances and conditions that should be avoided.
- Ventilate properly.
- DO NOT touch the effluents or walk around the area.
- Prevent producing dust.

B. Environmental precautions

- -Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

C. Methods and materials for containment and cleaning up

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.

- Notify the central and local government if the emission reach the standard threshold.

- Disposal of waste shall be in compliance with the Wastes Control Act
- Appropriate container for disposal of spilled material collected.

- Small leak: sand or other non-combustible material, please let use absorption.

- Wipe off the solvent.

- Dike for later disposal.

- Prevent the influx to waterways, sewers, basements or confined spaces.

- Spilled material should be treated as a potential risk of waste collected.

7. HANDLING AND STORAGE

A. Precautions for safe handling

- Wash thoroughly after use.

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- Take caut	ion against high temperature.				
	ineering Maintenance and Personal Prote	ective Gears	at work.		
B.Conditions f	or safe storage, including any incompa	tibilities			
	efore storage.				
	cool and dry places. ion of substances and conditions that a	should be ave	bided.		
8. EXPOSURE CO	ONTROLS/PERSONAL PROTECTION				
A. Exposure l 1) ACGIH T					
– Not av					
2) OSHA PE	L				
- Not av	ailable				
B. Engineerin	g controls				
- B <mark>u</mark> sines	s owner is recommended to maintai	n be <mark>lo</mark> w re	commended		
exposure gas/vapor/	limits for the working place with	general ex	haust of		
gas/vapor/			gice		
_	rotective equipment				
_	tory protection conditions of frequent use or heavy	evposure Re	espiratory		
	on may be needed.	exposure, Re	Spiratory		
_	atory protection is ranked in order fr	om minimum t	o maximum.		
	- Consider warning properties before use.				
	 Any chemical cartridge respirator with organic vapor cartridge(s) Any chemical cartridge respirator with a full facepiece and 				
organic	vapor cartridge(s).				
	r-purifying respirator with a full fac	epiece and a	n organic		
vapor ca - For U	nister. nknown Concentration or Immediately 1	Dangerous to	Life or		

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Health	: Any supplied-air respirator wit	h full facep	piece and
	in a pressure-demand or other pos		
	ion with a separate escape suppl	y. Any self-	-contained
2) Eye pro	g apparatus with a full facepiece.		
	primary eye protection such as sp	olash resistar	nt safety
	with a secondary protection face shie		it buildty
0.00	le an emergency eye wash station and		shower in
the imme	diate work area.		
3) Hand pr	otection		
- Wear a	ppropriate chemical resistant glove.		
4) Skin pr			
	appropriate protective clothing by co	onsidering phy	sical and
	properties of chemicals.		
5) Others - Not av	ailahle		
Not av			
9. Physical and 0	Chemical Properties		
A. Appearance	(physical state, color etc.)	Pellet	ergies
B. Odor		: Not avai	lable
C. Odor Thres	hold	: Not avai	lable
D. pH		: Not avai	lable
E. Melting po	int/Freezing point	: 40~110℃	
	iling point and boiling point range	: Not avai	
G. Flash poin		: Not avai	
H. Evaporatio		: Not avai	
	ty (solid, liquid)	: Not avai	
_	range of prints or high / low	: Not avai	
K. Vapor pres		: Not avai : Not avai	
L. Solubility M. Vapor Dens		: Not avai	
N. Specific g	-	: 0.920~0.	
		0.020 0.	2.30

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0. n-octanol	/ water partition coefficient	: Not	available		
P. Autoigniti	on temperature	: > 35	50 ℃		
Q. Decomposit	ion temperature	: 340°	C		
R. Viscosity		: Not	available		
S. Molecular	Weight	: > 1,	,000		
10. STABILITY AN	ND REACTIVITY				
A. Chemical Sta					
	luct is stable at steady-state w	when sto	red and hand	led under	
_	l conditions, temperature and pr			irea unaci	
recommended	conditions, temperature and pr	c55urc,			
B Possibility	of hazardous reactions				
-	ort about harmful polymerize	ed reac	tions in	the room	
_	e and pressure.				
C. Conditions t	o avoid				
	- Avoid contact with heat, sparks, flame or other ignition sources.				
 Containers may burst or explode when exposed to heat Store away from waterways and sewers 					
- Cylinders exposed to fire may release flammable gases (no code)					
cyrindero exposed to rife may rerease frammabre gases (no code)					
D. Incompatible	e material				
- Flammable					
E.Hazardous de	ecomposition products				
	lecomposition product \rightarrow carbon	oxides			
11. Toxicologic	11. Toxicological Information				
A. Information	on the likely routes of exposur	e			
1) Respirat	ory tracts : Not available				
2) Oral					
3) Skin con	tact : Not available				

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4) Eye cont	act	:	Not	availab	le	
B.Delayed and	immediate effects and	also	chr	onic ef	fects from	short and
long term e						
1) Acute to	-					
• Oral	2	:	Not	availab	le	
• Dermal		:	Not	availab	le	
• Inhalat	ion			availab		
	rosion/irritation			availab		
	eye damage/irritation			availab		
	ory sensitization			availab		
_	sitization			availab		
6) Carcinog				availab		
* IARC				availab		
* OSHA				availab		
* ACGIH				availab		
* NTP				availab		
* EU CLP	Hanwi			availab		
7) Germ cel	l mutagenicity	:	Not	availab	lealEne	oraies
8) Reproduc	tive toxicity	:	Not	availab	le	Jgics
9) STOT-sin	gle exposure	:	Not	availab	le	
10) STOT-re	peated exposure	:	Not	availab	le	
11) Aspirat		:	Not	availab	le	
12. ECOLOGICAL	- INFORMATION					
A. Ecotoxicity						
- Acute aqu	atic toxicity	:	Not	availab	le	
- Chronic a	quatic toxicity	:	Not	availab	le	
1) Fish		:	Not	availab	le	
2) Crustace	an	:	Not	availab	le	
3) Algae		:	Not	availab	le	

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	and Degradability		
1) Persiste			
2) Degradab	iltiy : Not available		
C.Bioaccumulat	ion potential		
1) Bioaccum	ulation : Not available		
2) Biodegra	tion : Not available		
D.Mobility in	soil : Not available		
E.Other advers	e effects		
- Not avail	able		
13. Disposal Co	onsiderations		
 A. Disposal method When this waste is solid state and doesn't mixed with other materials, it should be entrusted to the waste recycling processor When it is impossible to recycle, it should be entrusted to the waste recycling processor in accordance with the national regulated disposal methods(ex. incineration, landfill, etc) When this waste is mixed with designated wastes, it is entrusted to the waste recycling processor in accordance with the national regulated to the waste recycling processor in accordance with the national regulated to the waste recycling processor in accordance with the national regulated to the waste recycling processor in accordance with the national regulated disposal methods for the designated wastes 			
 B. Disposal instruction Take care not to burst the package bag and/or the package container Take care not to spill out of the package bag and/or the package container Don't dispose of the waste which mixed with the reactive material When disposing of the waste mixed with other materials, after stabilzing in order not to react each other, it should be safely disposed in accordance with the national regulation 			
		P a g	e 9 12

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- Dispose of the waste in accordance with all national laws and regulations

14. TRANSPORT INFORMATION

A.UN No. (IMDG CODE/IATA DGR)	: Not applicable
B. Proper shipping name	: Not applicable
C.Hazard Class	: Not applicable

D. IMDG CODE/IATA DGR Packing group : Not applicable

E.Marine pollutant : Not applicable

F.Special precautions for user related to transport or transportation measures

- Local transport follows in accordance with Danger<mark>ous</mark> goods Safety Management Law.

- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.

- Air transport(IATA): Not subject to IATA regulations.

15. REGULATORY INFORMATION

A.National and/or international regulatory	information
1) POPs Management Law	: Not regulated
2) Information of EU Classification	
• Classification	: Not applicable
3) U.S. Federal regulations	
• OSHA PROCESS SAFETY (29CFR1910.119)	: Not regulated
• CERCLA Section 103 (40CFR302.4)	: Not regulated
• EPCRA Section 302 (40CFR355.30)	: Not regulated
• EPCRA Section 304 (40CFR355.40)	: Not regulated

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• EPCRA S	ection 313 (40CFR372.65) : Not	regulated				
4) Rotterda	m Convention listed ingredients : Not	regulated				
5) Stockhol	m Convention listed ingredients : Not	regulated				
6) Montreal	Protocol listed ingredients : Not	regulated				
16. OTHER INFORMATION						
A.Reference						
	ttp://iaspub.epa.gov/sor_internet/regis	strv/substreg	<u>y</u> /			
	trieve/searchbylist/search.do		57			
	ation 1272/2008					
	OLI ; http://csi.micromedex.com/fraMain	n.asp?Mnu=0				
	mendations on the transport of dangerou	-	1			
	ographs on the Evaluation of Carcinoger					
	graphs.iarc.fr					
_	CM; http://echa.europa.eu/web/guest/inf	ormation-on-	chemicals			
	-substances					
O OECD SIDS; http://webnet.oecd.org/Hpv/UI/Search.aspx						
	tp://toxnet.nlm.nih.gov/cgi-bin/sis/sea					
		otalEne	ergies			
○ InCHEM; http://www.inchem.org/						
	Program ver.4.1					
B. Key acronyms						
○ ACGIH(American Conference of Governmental Industrial Hygienists)						
○ ECHA(European Chemicals Agency)						
○ OECD(Organization for Economic Co-operation and Development)						
○ CERCLA(Comprehensive Environmental Response, Compensation, and						
Liability Act)						
○ IARC(International Agency for Research on Cancer)						
○ NIOSH(National Institute for Occupational Safety and Health)						
 OSHA(Occupational Safety and Health Administration) NTP(National Toxicology Program) 						
\bigcirc INTE (INALTOTIAT TOXICOTOGY FLOGRAM)						

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